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CHECK-LIST
OF BIRDS OF THE WORLD

VOLUME VI

MUSEUM OF COMPARATIVE ZOOLOGY
HARVARD UNIVERSITY
CAMBRIDGE, MASSACHUSETTS 02138

CHECK-LIST OF BIRDS OF THE WORLD

VOLUME VI

BY

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AT HARVARD COLLEGE

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INTRODUCTION

As stated in the introduction to Volume V, no major changes have been adopted in the general scope of this series.

In July 1944, the International Commission on Zoological Nomenclature republished Opinion 1 with editorial notes by Francis Hemming, Secretary to the Commission. This Opinion originally defined the word "indication" in Article 25. In his editorial notes Mr. Hemming pointed out that in cases where a generic name is proposed *without diagnosis or designation of type*, it is valid only if (a) it contains but a single species, in which case that species is the type by monotypy, or (b) if among its contained species is one so named that the principles of tautonymy may be invoked to determine the type. If, however, the new genus contains two or more species without diagnosis or designated type, and its type cannot be determined by tautonymy, then such a name is to be regarded as a *nomen nudum* and any subsequent author would be free to republish the name in question.

If this undoubtedly correct interpretation is accepted it will be necessary to change hundreds of generic names in all branches of zoology. For reasons stated beyond, it has not been adopted in this volume. It directly affects certain names in the following manner: in the present volume are a number of generic names commonly credited to Bonaparte, most of which were published in 1854 in the *Ateneo Italiano*, a rare publication which apparently is lacking in American libraries. Bonaparte's paper, however, is better known from a separately paged reprint entitled "Conspectus Volucrum Zygodactylorum." A glance at the "Conspectus" shows that many of the generic names there proposed by Bonaparte will not meet the requirements of Article 25, as defined in Opinion 1, although this fact was entirely overlooked until Mr. Hemming's notes appeared. Many of these names have been in continuous use for over ninety years and had been listed as valid in all standard "nomenclators."

After much deliberation, and on the advice of Mr. Hemming, it has seemed the wisest course not to change over in the middle of a series from the former (incorrect) interpretation of Article 25, to the present (correct) interpretation, especially so since a strongly backed petition has been submitted to the Commission praying that the International Zoological Congress be invited to amend Article 25 to restore officially the meaning commonly attributed to it. The question is at the moment *sub judice*. Should the International Zoological Congress ultimately decide to uphold the present interpretation, subsequent volumes of this Check-List will conform to the established usage, and I shall endeavor to publish elsewhere the changes in generic names which would then be necessary.

The woodpeckers have not been monographed since Hargitt did so for the eighteenth volume of the Catalogue of Birds in the British Museum, which was published in 1890; his arrangement was that followed by Sharpe in Volume II of his "Hand-list," appearing in 1900. Hargitt's classification is not in accord with modern concepts of the relationships within the Picidae, consequently a more up-to-date sequence of subfamilies and genera has been attempted here.

The true woodpeckers (subfamily Picinae) may be divided into two major groups on the basis of external foot structure; in one group the outer hind toe is not longer than the outer front toe, as opposed to another group in which the outer hind toe is definitely longer than the outer front toe. The latter condition is correlated with a bill having a wide "nasal shelf," and nostril situated at least midway between the culmen and the edge of the upper mandible, often nearer the edge of the mandible. The group in which the outer hind toe is not longer than the outer front toe has a narrower nasal shelf and the nostril is situated nearer the culmen. Dr. Burt has shown that as far as North American genera are concerned, these same external characters are correlated with certain anatomical features and should the same prove to be true of the remaining genera of woodpeckers, the Picinae could well be divided into two subfamilies. In this volume the group with the shorter hind toe and bill with narrow nasal shelf consists of the genera Geocolaptes to Leuconerpes inclu-

sive and the group with the longer hind toe and wider nasal shelf commences with Sphyrapicus and includes the balance of the genera.

The manuscript was completed and submitted for publication about the first of October 1947 and was revised to include new forms described up to 31 December 1946; a few forms appearing after 1 January 1947 were also included, but no real effort was made to search the literature appearing after the latter date.

For assistance in insuring the publication of this volume it is a pleasure to acknowledge needed aid from Mr. Boardman Conover, Mr. Jean Delacour, Mr. Rodolphe M. de Schauensee, Mr. James C. Greenway, Jr., Mr. Robert T. Moore, Mrs. Walter W. Naumburg, Dr. Max M. Peet, Mr. William H. Phelps, Dr. S. Dillon Ripley II, and Mrs. Carll Tucker.

For reading the typescript, either in whole or in part and for making valuable suggestions and corrections and for verifying references I again have to thank Dr. James P. Chapin, Mr. Herbert G. Deignan, Dr. Herbert Friedmann, Mr. Rodolphe M. deSchauensee, Dr. Ernst Mayr, Dr. Alexander Wetmore, and Dr. John T. Zimmer; my colleague, Mr. James C. Greenway, Jr., was always ready to discuss difficult cases as they arose.

Necessary comparative material has been loaned by the American Museum of Natural History, Academy of Natural Sciences of Philadelphia, Carnegie Museum, Chicago Natural History Museum, and the United States National Museum; my thanks are extended to the authorities of these institutions.

Mrs. R. Earl Bowen of Gettysburg, Pennsylvania, who has figured prominently in typing the copy for all the preceding volumes, typed the greater part of the manuscript for this one, the balance being done by Miss Ruth Inman, secretary to the Bird Department of the Museum of Comparative Zoölogy. As usual, Mrs. Peters was of invaluable assistance in reading the proof.

The index was prepared by Mrs. R. E. Bowen.

J. L. P.

7 June 1948

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CHECK-LIST
OF BIRDS OF THE WORLD

Order PICIFORMES

Suborder GALBULAE

Superfamily GALBULOIDEA

Family GALBULIDAE

Genus GALBALCYRHYNCHUS Des Murs

Galbalcyrhynchus Des Murs, Rev. Zool., 1845, p. 207. Type, by monotypy, *Galbalcyrhynchus leucotis* Des Murs.

cf. Goeldi, Bol. Mus. Goeldi, 5, 1908, p. 77-91.

Sclater, Monogr. Jacamars and Puff-birds, 1882, p. xxiv; 53–55, pl. 17.

Galbalcyrhynchus leucotis leucotis Des Murs

Galbalcyrhynchus leucotis Des Murs, Rev. Zool., 1845, p. 207. (Bogotá, Colombia.)

Amazonian Colombia, Ecuador and extreme northeastern Perú, from Bogotá to the south bank of the Amazon, extending up the Ucayali to Sarayacu.

Galbalcyrhynchus leucotis purusianus Goeldi

Galbalcyrhynchus purusianus Goeldi, Verz. Neuen Thiere und Pflantzenformen etc., Suppl. 7, Feb. 1904, p. [3]. (Rio Purús.)

Galbalcyrynchus [sic] *purusianus* Goeldi, Compt. Rend. 6me Congr. Internat. Zool., Berne, 1904 (25 May, 1905 or later), p. 548. (Upper Rio Purús and Acre.)

Galbacyrhynchus [sic] *leucotis innotatus* H. von Ihering, Rev. Mus. Paulista, 6, 1904 (1905), p. 445. (Rio Juruá, Brazil.)

Eastern and southeastern Perú; western Brazil (Rio Juruá, Rio Purús); northern Bolivia (Río Beni).

Genus BRACHYGALBA Bonaparte

Brachygalba Bonaparte, Ateneo Italiano, 2, 1854, p. 129. (Separately paged reprint, Consp. Vol. Zygod., p. 13.) Type, by subsequent designation, *Galbula albigularis* Spix. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 137.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 338–339. Hellmayr, Abh. K. Bay. Akad. Wiss., 22, 1906, p. 600–601.

——Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 425–426.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 369–370.

Brachygalba lugubris fulviventris Sclater

Brachygalba fulviventris Sclater, Cat. Bds. Brit. Mus., 19, 1891, p. 171 (in key), p. 172. (Bogotá, Colombia.)

Eastern base of the Eastern Andes of Colombia north of the Amazonian region (Buenavista, Villavicencio).

Brachygalba lugubris caquetae Chapman

Brachygalba fulviventris caquetæ Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 338. (La Morelia, 600 feet, Río Bodoquera, Caquetá, Colombia.)

Eastern base of the Eastern Andes of Colombia (south of the range of *fulviventris*) southward through eastern Ecuador to eastern Perú.

Brachygalba lugubris lugubris (Swainson)

Galbula lugubris Swainson, Anim. in Menag., 1838 (1837), p. 329. (Conucou [*i.e.* Kanuku] Mts., British Guiana.)

Eastern and southern Venezuela and the Guianas, south to northern Brazil (Rio Branco, Rio Tocantins, Rio Acará).

Brachygalba lugubris obscuriceps Zimmer and Phelps

Brachygalba lugubris obscuriceps Zimmer and Phelps, Am. Mus. Novit., no. 1338, 1947, p. 3. (Rio Castanho, Base Canoas, Rio Padaniri, 160 meters, Brazil.)

Extreme southern Venezuela (Río Ocamo, upper Orinoco) and northwestern Brazil (upper Rio Padaniri, Rio Negro).

Brachygalba lugubris naumburgi Chapman

Brachygalba lugubris naumburgi Chapman, Am. Mus. Novit., no. 450, 1931, p. 1. (Therezina, Piauí, Brazil.)

Northeastern Brazil in states of Maranhão and Piauí.

Brachygalba lugubris melanosterna Sclater

Brachygalba melanosterna Sclater, Proc. Zool. Soc. London, pt. 23, 1855, p. 15. (Goiás, Brazil, and Guayaros in Bolivia.)

Eastern Bolivia; central Brazil in states of Mato Grosso, Goiáz, Pará, Minas Gerais and São Paulo.

Brachygalba phaeonota Todd

Brachygalba phæonota Todd, Ann. Carnegie Mus., 30, 1943, p. 10. (Tonantins, Rio Solimões, Brazil.)

Known only from the unique type.

Brachygalba goeringi Sclater and Salvin

Brachygalba goeringi Sclater and Salvin, Proc. Zool. Soc. London, 1869, p. 253, pl. 18. (Near Maruria, north of Lake of Valencia, at foot of mtn. of Guiguc, Venezuela.)

Eastern Colombia in Dept. of Boyacá (Palmar) and northern Venezuela (Lake Valencia, El Trompillo).

Brachygalba salmoni Sclater and Salvin

Brachygalba salmoni Sclater and Salvin, Proc. Zool. Soc. London, 1879, p. 535. (Río Neche [*i.e.* Nechí], Antioquia, Colombia.)

Eastern Panamá; northwestern Colombia in Dept. of Antioquia.

Brachygalba albogularis (Spix)

Galbula albogularis Spix, Av. Bras., **1**, 1824, p. 54, pl. 57, f. 1. (Pará = Rio Javary.)

Known certainly only from the Rio Javary, on the Perú-Brazil boundary.

Genus **JACAMARALCYON** Lesson

Jacamaralcyon Lesson, Traité d'Orn., livr. 3, 1830, p. 235. Type, by monotypy, *Jacamaralcyon brasiliensis* Lesson = *Galbula tridactyla* Vieillot.

cf. Pinto, Rev. Mus. Paulista, **22**, 1938, p. 305–306.

Jacamaralcyon tridactyla (Vieillot)

Galbula tridactyla Vieillot, Nouv. Dict. Hist. Nat., **16**, 1817, p. 445. (Brazil; Pinto, *op. cit.*, suggests São Paulo as restricted type locality.)

Southeastern Brazil in states of Minas Gerais, Rio de Janeiro, São Paulo and Paraná.

Genus **GALBULA**[1] Brisson

Galbula Brisson, Orn., **1**, 1760, p. 42; **4**, p. 86. Type, by tautonymy, *Galbula* = *Alcedo galbula* Linné.

Psilopornis Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 361. Type, by original designation, *Galbula albirostris* Latham.

cf. Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 336–337; **55**, 1926, p. 351–353.

Hellmayr, Nov. Zool., **17**, 1910, p. 388–390.

[1] Includes *Urogalba* Bonaparte, 1854, of Sharpe's Hand-list.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 361 (key, part); p. 365–368.

Todd, Ann. Carnegie Mus., **30**, 1943, p. 4–10.

Galbula albirostris chalcocephala Deville

Galbula chalcocephala Deville, Rev. et Mag. Zool. (2), **1**, 1849, p. 55. (Sarayacu, Río Ucayali.)

Amazonian Colombia, Ecuador and northeastern Perú; upper Rio Negro region of Brazil.

Galbula albirostris albirostris Latham

Galbula albirostris Latham, Index Orn., **1**, 1790, p. 245. (South America; Cayenne substituted as type locality by Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 104.)

Galbula surinamensis Penard and Penard, Vog. Guyana, **1**, 1908, p. 576. (Surinam, type from Lelydorp.)

Eastern Venezuela, the Guianas and northern Brazil.

Galbula albirostris cyanicollis Cassin

Galbula cyanicollis Cassin, Proc. Acad. Nat. Sci. Philadelphia, **5**, 1851, p. 154, pl. 7. (Pará, Brazil.)

Amazonian Brazil, south of the Amazon, from the Eirú and the Juruá to northern Maranhão.

Galbula galbula (Linné) [1]

Alcedo Galbula Linné, Syst. Nat., ed. 12, **1**, 1766, p. 182. Cayenne and Brazil, *i.e.* Cayenne.)

Extreme eastern Colombia, eastern and southern Venezuela, the Guianas, Brazil north and south of the Amazon to the lower Rio Madeira and Pará (Lago Grande).

Galbula tombacea tombacea Spix

Galbula tombacea Spix, Av. Bras., **1**, 1824, p. 55, pl. 58. ("In sylvis fl. Amazonum, = São Paulo de Olivença, Brazil, by designation of Todd, *antea,* p. 8.)

Amazonian Colombia, Ecuador and Perú; western Brazil south of the Amazon eastward at least to Tonantins.

Galbula tombacea mentalis Todd

Galbula tombacea mentalis Todd, Ann. Carnegie Mus., **30**, 1943, p. 9. (Caviana, opposite Manacapurú, Rio Solimões, Brazil.)

Both banks of the middle Amazon from the Rio Negro and the Rio Madeira, westward an undetermined distance.

[1] Replaces *Galbula viridis* (Linné) of Sharpe's Hand-list.

Galbula cyanescens Deville

Galbula cyanescens Deville, Rev. et Mag. Zool. (2), 1, 1849, p. 56. (Banks of the Amazon; types from Sarayacu, Río Ucayali, Perú.)

Amazonian Perú south of the Amazon and adjacent parts of western Brazil, eastward at least to the Purús.

Galbula pastazae Taczanowski and Berlepsch

Galbula pastazæ Taczanowski and Berlepsch, Proc. Zool. Soc. London, 1885, p. 107. (Mapoto and Machay, Ecuador.)

Subtropical zone of eastern Ecuador; recorded from western Brazil (Arimã, on the Rio Purús, tropical zone).

Galbula ruficauda melanogenia Sclater

Galbula melanogenia Sclater, in Jardine's Contr. Orn. for 1852, 1853, p. 61, pl. 90. ("S. A., locality uncertain"); p. 93. (Veragua.)

Humid tropical zone from Veracruz and Chiapas southward over all of Central America and the Pacific coast of Colombia and Ecuador.

Galbula ruficauda ruficauda Cuvier

Galbula ruficauda Cuvier, Règne Anim., 1, 1817 (1816), p. 420, based on LeVaillant, Ois. de Paradis etc., 2, pl. 50. (Guiana.)

Humid tropical zone of central Colombia in the Cauca and Magdalena valleys, Venezuela, the Rio Branco region of Brazil, and the Guianas; islands of Trinidad and Tobago.

Galbula ruficauda pallens Bangs

Galbula ruficauda pallens Bangs, Proc. Biol. Soc. Washington, 12, 1898, p. 133. (Santa Marta, Colombia.)

Arid tropical zone of northern Colombia west to the Río Sinú, in the lower Magdalena Valley and the Santa Marta region.

Galbula ruficauda brevirostris Cory

Galbula ruficauda brevirostris Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1913, p. 287. (Encontrados, southwest of Lake Maracaibo, Venezuela.)

Humid tropical zone at the head of Lake Maracaibo, Venezuela.

Galbula ruficauda rufoviridis Cabanis

Galbula rufoviridis Cabanis, in Ersch and Gruber's Allg. Encyc. Wiss. und Künste, Sect. 1, 1851, Th. 52, p. 308. (Brazil.)

The greater part of Brazil south of the Amazon; Paraguay; northeastern Argentina in Gobernación de Misiones; northern Bolivia (Río Beni).

Galbula ruficauda heterogyna Todd

Galbula rufoviridis heterogyna Todd, Proc. Biol. Soc. Washington, **45**, 1932, p. 217. (Palmarito, Río San Julián, Chiquitos, Bolivia.)

Tropical Bolivia east of the Andes (except area occupied by *G. r. rufoviridis*) ; western Mato Grosso (Descalvados).

Galbula leucogastra chalcothorax Sclater

Galbula chalcothorax Sclater, Proc. Zool. Soc. London, pt. 22, 1854 (1855), p. 110. (Quijos, Ecuador.)

Amazonian Ecuador and Perú ; western Brazil on the Rio Juruá.

Galbula leucogastra leucogastra Vieillot

Galbula leucogastra Vieillot, Nouv. Dict. Hist. Nat., **16**, 1817, p. 444. (South America, restricted to Cayenne by Hellmayr, *antea,* p. 390.)

The Guianas, southern Venezuela, and western Brazil from the upper Rio Negro to the Purús and the Madeira.

Galbula leucogastra viridissima Griscom and Greenway

Galbula leucogaster viridissima Griscom and Greenway, Bull. Mus. Comp. Zoöl., **81**, 1937, p. 426. (Pinhy, Rio Tapajóz, Brazil.)

Known only from the Rio Tapajóz.

Galbula dea dea (Linné)

Alcedo Dea Linné, Syst. Nat., ed. 10, **1**, 1758, p. 116. (Surinam.)

Venezuela (upper Orinoco), the Guianas, northern Brazil north of the Amazon from the left bank of the Rio Negro eastward.

Galbula dea amazonum (Sclater)

Urogalba amazonum Sclater, Proc. Zool. Soc. London, pt. 23, 1855, p. 14. (Pará, Amazon River.)

Northern Bolivia on the Río Beni, and Brazil on the south bank of the Amazon and its southern affluents from the right bank of the Tapajóz to the Pará district.

Galbula dea brunneiceps (Todd)

Urogalba dea brunneiceps Todd, Ann. Carnegie Mus., **30**, 1943, p. 6. (Manacapurú, Rio Solimões, Brazil.)

Eastern Perú east to the right bank of the Rio Negro, and on the south bank of the Amazon between the Madeira and the Tapajóz.

Galbula dea phainopepla (Todd)

Urogalba dea phainopepla Todd, Ann. Carnegie Mus., **30**, 1943, p. 6. (Arimã, Rio Purús, Brazil.)

Western Brazil south of the Amazon and west of the Rio Madeira.[1]

Genus **JACAMEROPS** Lesson

Jacamerops Lesson, Traité d'Orn., livr. 3, 1830, p. 234. Type, by monotypy, *Alcedo grandis* Gmelin = *Alcedo aurea* P. L. S. Müller.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 362–365.

Todd, Ann. Carnegie Mus., **30**, 1943, p. 1–3.

Jacamerops aurea penardi Bangs and Barbour

Jacamerops aurea penardi Bangs and Barbour, Bull. Mus. Comp. Zoöl., **65**, 1922, p. 200. (Carillo, Costa Rica.)

Caribbean slope of Costa Rica, Panamá (both slopes) and western Colombia, east to the western slopes of the Eastern Andes.

Jacamerops aurea aurea (P. L. S. Müller)

Alcedo aurea P. L. S. Müller, Natursyst., Suppl., 1776, p. 94. (Berbice, British Guiana.)

Galbula Boersii Ranzani, Elem. di. Zool., **3**, 1821, pt. 2, p. 197. (Banda Island; error, I designate British Guiana.)

Eastern Colombia, Venezuela and the Guianas.

Jacamerops aurea ridgwayi Todd

Jacamerops aurea ridgwayi Todd, Ann. Carnegie Mus., **30**, 1943, p. 2. (Miriti tuba, Rio Tapajóz, Brazil.)

Lower Amazon valley in Brazil from the Rio Negro and the Rio Tapajóz (and probably the Madeira), eastward.

Jacamerops aurea isidori Deville

Jacamerops Isidori Deville, Rev. et Mag. Zool. (2), **1**, 1849, p. 55. (Sarayacu and Pampa del Sacramento, Perú.)

Eastern Ecuador, eastern Perú, and western Brazil east to the Rio Purús and northern Bolivia on the Río Beni.

[1] Bond and deSchauensee, Proc. Acad. Nat. Sci. Phila., **95**, 1943, p. 213 point out that Porto Velho, "Bolivia" whence Cory records this bird is actually in Brazil.

Family BUCCONIDAE

Genus NOTHARCHUS Cabanis and Heine

Notharchus Cabanis and Heine, Mus. Hein., Th. 4, 1862–63 (1863), Heft 1, p. 146, 149. Type, by subsequent designation, *Bucco hyperrhynchus* Sclater. (Sclater, Monogr. Jacamars and Puff-birds, 1882, p. xxxv.)

Megacephalus W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 39. Type, by monotypy, *Megacephalus bitorquatus* W. Bertoni = *Bucco swainsoni* G. R. Gray. Not *Megacephalus* Fitzinger, 1843.

cf. Chapman, Bull. Am. Mus. Nat. Hist., **55**, 1926, p. 354–355.
Pinto, Rev. Mus. Paulista, **22**, 1938, p. 307–309.
Ridgway, Bull. U. S. Nat. Mus. no. 50, pt. 6, 1914, p. 373–380.

Notharchus macrorhynchos cryptoleucus van Rossem

Notharchus hyperrhynchus cryptoleucus van Rossem, Trans. San Diego Soc. Nat. Hist., **8**, 1934, p. 3. (Barra de Santiago, sea level, Dept. Ahuachapán, El Salvador.)

Pacific lowlands of El Salvador and northwestern Nicaragua.

Notharchus macrorhynchos hyperrynchus (Sclater)

Bucco hyperrhynchus Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 193, pl. 105. (Upper Amazon.)

Bucco dysoni Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 193. (Honduras.)

Southern México, Central America (except part occupied by *N. m. cryptoleucus*) and north-western South America, from Oaxaca to eastern Perú, eastern Bolivia, southern Venezuela and the Rio Tapajóz (left bank).

Notharchus macrorhynchos macrorhynchos (Gmelin)

Bucco macrorhynchos Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 406. (Cayenne.)

The Guianas, the Rio Negro and Rio Branco region of Brazil, south to the Amazon.

Notharchus macrorhynchos paraensis Sassi

Notharchus macrorhynchus paraensis Sassi, Orn. Monatsb., **40**, 1932, p. 121. (Pará.)

Lower Amazon valley in State of Pará east of the Tapajóz, extending into the forest region of northern Maranhão.

Notharchus macrorhynchos swainsoni (G. R. Gray)

Bucco swainsoni G. R. Gray, Gen. Bds., **1**, 1846, p. 74. (Brazil.) New name for *Tamatia macrorhynchus* Swainson, Zool. Illustr. pl. 99, not *Bucco macrorhynchos* Gmelin.

Southeastern Brazil in states of Espirito Santo, Rio de Janeiro, São Paulo, Paraná and Santa Catarina; eastern Paraguay; northeastern Argentina in Gobernación de Misiones.

Notharchus pectoralis (G. R. Gray)

Bucco pectoralis G. R. Gray, Gen. Bds., **1**, 1846, pl. 26. (No locality.)

Panamá from the Canal Zone eastward; central Colombia to northwestern Ecuador.

Notharchus ordii (Cassin)

Bucco Ordii Cassin, Proc. Acad. Nat. Sci. Philadelphia, **5**, 1851, p. 154, pl. 8. (Venezuela.)

Southern Venezuela (Mt. Duida), northwestern Brazil (upper Rio Negro, Rio Cussary, Rio Solimões); recorded from Cayenne, doubtless erroneously.

Notharchus tectus subtectus (Sclater)

Bucco subtectus Sclater, Proc. Zool. Soc. London, pt. 28, 1860, p. 296. (Esmeraldas, western Ecuador.)

Panamá from the Canal Zone eastward, Colombia west of the Magdalena River, and southwestern Ecuador; recorded also from eastern Costa Rica and Veraguas.

?Notharchus tectus picatus (Sclater)

Bucco picatus Sclater, Proc. Zool. London, pt. 23, 1855 (1856), p. 194, (Chamicuros, Perú.)

Eastern Ecuador and eastern Perú.

Notharchus tectus tectus (Boddaert)

Bucco tectus Boddaert, Table Pl. enlum., 1783, p. 43. (Cayenne, *ex* Daubenton, pl. 688, f. 2.)

Southern Venezuela, the Guianas, northern Brazil to the south bank of the lower Amazon, and extending to Maranhão.

Genus **BUCCO** Brisson

Bucco Brisson, Orn., **1**, 1760, p. 42; **4**, p. 91, 92. Type, by tautonymy, *Bucco* Brisson = *Bucco capensis* Linné.

Nystactes Gloger, Froriep's Notizen, **16**, 1827, col. 277. Type, by monotypy, *Bucco somnolentus* [Lichtenstein] = *Bucco tamatia* Gmelin.

Argicus Cabanis and Heine, Mus. Hein., Th. 4, 1862–63 (1863), Heft 1, p. 148. New name for *Cyphos* Spix, 1824, not *Cyphus* Schönherr, 1823. Type, by monotypy, *Cyphos macrodactylus* Spix.

cf. Hellmayr, Nov. Zool., **17**, 1910, p. 391–392.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 371–372.

Bucco macrodactylus (Spix)

Cyphos macrodactylus Spix, Av. Bras., **1**, 1824, p. 51, pl. 39, f. 2. ("In sylvis flumen Amazonum"; restricted to Fonte Boa, Brazil, by Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 102.)

Argicus macrodactylus caurensis Cherrie, Bull. Am. Mus. Nat. Hist., **35**, 1916, p. 389. (La Unión, Caura River, Venezuela.)

Tropical zone of eastern Colombia, eastern Ecuador and eastern Perú, the lower Orinoco valley in Venezuela, western Brazil on the lower Solimões and the Rio Juruá and northern Bolivia on the Río Beni and in Dept. of Santa Cruz.

Bucco tamatia pulmentum Sclater

Bucco pulmentum Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 194, pl. 106. (Eastern Perú and region of the upper Amazon: Pebas, Chamicurros.)

Amazonian Colombia (Leticia), eastern Ecuador, eastern Perú and adjacent parts of northwestern Brazil to the Rio Purús.

Bucco tamatia tamatia Gmelin

Bucco Tamatia Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 405. (Cayenne and Brazil.)

Extreme eastern Colombia (Maipures), eastern Venezuela, the Guianas and adjacent parts of northern Brazil; also along the south bank of the Amazon from the right bank of the Rio Madeira to the Tapajóz.

Bucco tamatia inexpectatus (Todd)

Nystactes tamatia inexpectatus Todd, Ann. Carnegie Mus., **30**, 1943, p. 14. (Manacapurú, Rio Solimões, Brazil.)

Known only from the north bank of the Amazon, west of the Rio Negro.

Bucco tamatia punctuliger (Todd)

Nystactes tamatia punctuliger Todd, Ann. Carnegie Mus., **30**, 1943, p. 14. (Caviana, Rio Solimões, Brazil.)

Known only from the south bank of the Amazon between the Purús and the Madeira.

Bucco tamatia hypneleus (Cabanis and Heine)

Chaunornis hypnelea Cabanis and Heine, Mus. Hein., Th. 4, 1862–63 (1863), Heft 1, p. 145, note. (Pará.)

Right bank of the lower Amazon from the Tapajóz to the Capim, and islands in the Amazon Delta.

Bucco tamatia interior (Cherrie and Reichenberger)

Nystactes tamatia interior Cherrie and Reichenberger, Am. Mus. Novit., no. 27, 1921, p. 3. (Campos Novos, Cerro do Norte, Mato Grosso.)

Northern and western Mato Grosso.

Bucco noanamae Hellmayr

Bucco noanamæ Hellmayr, Bull. Brit. Orn. Cl., 25, 1909, p. 20. (Noanamá, 100 feet, Río San Juan, Chocó, Colombia.)

Confined to the headwaters of the San Juan and Atrato rivers in western Colombia.

Bucco capensis Linné

Bucco capensis Linné, Syst. Nat., ed. 12, 1, 1766. p. 168. (Cape of Good Hope, error = Guiana *ex* Brissonian reference.) [1]

Southeastern Colombia, eastern Ecuador and northeastern Perú, eastward through southern Venezuela and northern Brazil (both banks of the Amazon) to Cayenne and Belém.

Genus **NYSTALUS** Cabanis and Heine

Nystalus Cabanis and Heine, Mus. Hein., Th. 4, 1862–63 (1863), Heft 1, p. 139. Type, by subsequent designation, *Alcedo maculata* Gmelin. (Sclater, Monogr. Jacamars and Puff-birds, pt. 4, 1882, p. xxxv.)

Ecchaunornis Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 97. Type, by original designation, *Bucco radiatus* Sclater.

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 341–342.

Cherrie and Reichenberger, Am. Mus. Novit., no. 58, 1923, p. 6–8.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 426–428.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 384–386.

Nystalus radiatus (Sclater)

Bucco radiatus Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 122, pl. 50. (Colombia = Magdalena Valley, *fide* Chapman, *antea.*)

[1] Replaces *Bucco collaris* Latham of Sharpe's Hand-list.

Western Panamá to the lower Cauca and Magdalena valleys in Colombia, extending southward along the Pacific coast of Ecuador to Guayaquil.

Nystalus chacuru uncirostris (Stolzmann)

Ecchaunornis chacuru uncirostris Stolzmann, Ann. Zool. Mus. Polonici Hist. Nat., **5**, 1926, p. 214. (Santa Ana, Perú.)

Eastern Perú and eastern Bolivia.

Nystalus chacuru chacuru (Vieillot)

Bucco chacuru Vieillot, Nouv. Dict. Hist. Nat., **3**, 1816, p. 239. (Paraguay.)

Campo region of Brazil south of the Amazon; Paraguay; northeastern Argentina.

Nystalus striolatus striolatus (Pelzeln)

Bucco striolatus "Natterer" Pelzeln, Sitzungsb. K. Akad. Wiss. Wien, Math.-Naturwiss. Kl., **20**, 1856, p. 500. (Engenho do Gama and No Dourado, Mato Grosso.)

Eastern Ecuador, eastern Perú, Bolivia and western Brazil in State of Mato Grosso.

Nystalus striolatus torridus Bond and de Schauensee

Nystalus striolatus torridus Bond and de Schauensee, Notulae Naturae, no. 50, 1940, p. 1. (Rio Guamá, Belém, Pará.)

Eastern parts of Pará, south of the Amazon.

Nystalus maculatus maculatus (Gmelin)

Alcedo maculata Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 451. (Brazil.)

Nystalus maculatus nuchalis Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 398. (Juá, near Iguatú, Ceará.)

Eastern Brazil south of the Amazon and east of the Rio Tapajóz, south to Minas Gerais and Baía.

Nystalus maculatus parvirostris (Hellmayr)

Bucco maculatus parvirostris Hellmayr, Nov. Zool., **15**, 1908, p. 86. (Rio Araguaya, Goiáz.)

Central Brazil in states of Goiáz, Minas Gerais and southeastern part of Mato Grosso.

Nystalus maculatus pallidigula Cherrie and Reichenberger

Nystalus maculatus pallidigula Cherrie and Reichenberger, Am. Mus. Novit., no. 6, 1923, p. 6. (Urucúm, near Corumbá, Mato Grosso.)

Western Mato Grosso.

Nystalus maculatus striatipectus (Sclater)

Bucco striatipectus Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123. (Bolivia.)

Eastern and southern Bolivia in depts. of Misque, Santa Cruz, Cordilleros and Tarija; northern Argentina in provs. of Jujuy, Salta, Tucumán, Santiago del Estero and Chaco.

Genus HYPNELUS Cabanis and Heine

Hypnelus Cabanis and Heine, Mus. Hein., Th. 4, 1862–63 (1863), Heft 1, p. 143. Type, by subsequent designation, *Tamatia bicincta* Gould. (Sclater, Monogr. Jacamars and Puff-birds, pt. 4, 1882, p. xxxv).

cf. Barnés and Phelps, Bol. Soc. Venezolana Cienc. Nat., no. 46, 1940, p. 24–25.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 380–383.

Hypnelus ruficollis ruficollis (Wagler)

Capito ruficollis Wagler, Isis von Oken, 22, 1829, col. 658. (México, error = Cartagena, Colombia.)

Arid parts of northern Colombia from the lower Magdalena Valley to the Santa Marta region; western Venezuela in the region west of Lake Maracaibo.

Hypnelus ruficollis decolor Todd and Carriker

Hypnelus ruficollis decolor Todd and Carriker, Ann. Carnegie Mus., 14, 1922, p. 228. (Río Hacha, Colombia.)

Guajira Peninsula, Colombia, and northwestern Venezuela in State of Falcón.

Hypnelus ruficollis coloratus Ridgway

Hypnelus ruficollis coloratus Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 382 (in key). (Encontrados, Venezuela.)

Western Venezuela in the humid region south of Lake Maracaibo.

Hypnelus bicinctus bicinctus (Gould)

Tamatia bicincta Gould, Proc. Zool. Soc. London, pt. 4, 1836 (1837), p. 80. (Cayenne? *i.e.* Venezuela.)

Northern Venezuela and the Orinoco Valley below Caicara.

Hypnelus bicinctus stoicus Wetmore

Hypnelus bicinctus stoicus Wetmore, Smiths. Misc. Coll., 98, 1939, no. 4, p. 1. (Margarita Island.)

Confined to Margarita Island off the north coast of Venezuela.

Genus **MALACOPTILA** G. R. Gray

Malacoptila G. R. Gray, List Gen. Bds., ed. 2, 1841, p. 13. Type, by subsequent designation, *Bucco fuscus* Gmelin (G. R. Gray, Gen. Bds., **1**, 1846, p. [74]).

cf. Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 342–343; **55**, 1926, p. 356–357.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 313–314.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 387–392.

Malacoptila striata minor Sassi

Malacoptila torquata minor Sassi, Journ. f. Orn., **59**, 1911, p. 181. (Miritiba, Maranhão.)

Eastern Brazil in State of Maranhão.

Malacoptila striata striata (Spix)

Bucco torquatus "Wagler" Hahn and Küster, Voeg. aus Asien, Afrika, Amerika und Neuholland, Lief. 13, 1822, pl. 5 and text. (Brazil.) Not *Bucco torquatus* Dumont, 1805.

Bucco striatus Spix, Av. Bras., **1**, 1824, p. 52, pl. 40, f. 2. (Rio de Janeiro and Baía.)

Southeastern Brazil from southern Baía and eastern Minas Gerais to Santa Catarina.

Malacoptila fusca fusca (Gmelin)

Bucco fuscus Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 408. (Cayenne.)

The Guianas, southeastern Colombia, eastern Ecuador, northeastern Perú, and Brazil north of the Amazon and east to Obidos.

Malacoptila fusca semicincta Todd

Malacoptila semicincta Todd, Proc. Biol. Soc. Washington, **38**, 1925, p. 111. (Hyutanahan, Rio Purús, Brazil.)

Recorded from southern Perú (north slopes of the Sierra de Carabaya), western Brazil (Rio Purús) and northern Bolivia (Río Beni).

Malacoptila fulvogularis substriata Sclater

Malacoptila substriata Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123, pl. 51. (Colombia; Llanos de Meta, suggested as type locality by de Schauensee, 1946.)

Colombia; known from Bogotá trade skins and a specimen from the Llanos de Meta.

Malacoptila fulvogularis huilae de Schauensee

Malacoptila fulvogularis huilae de Schauensee, Notulae Naturae, no. 163, 1946, p. 4. (El Isno, Dept. of Huila, Colombia.)

Known only from the head of the Magdalena Valley, Colombia.

Malacoptila fulvogularis fulvogularis Sclater

Malacoptila fulvogularis Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123. (Bolivia.)

Malacoptila fulvigularis melanopogon, Berlepsch and Stolzmann, Proc. Zool. Soc. London, 1902, vol. 2, p. 37. (Garita del Sol and Maraynioc, Perú.)

Subtropical zone of the Andes from eastern Ecuador to Bolivia.

Malacoptila rufa rufa (Spix)

Bucco rufus Spix, Av. Bras., **1**, 1824, p. 52, pl. 40, f. 1. (Amazon.)

Eastern Ecuador, eastern Perú, western Brazil south of the Amazon to the left bank of the Madeira.

Malacoptila rufa brunnescens Zimmer

Malacoptila rufa brunnescens Zimmer, Am. Mus. Novit., no. 500, 1931, p. 3. (Caxiricatuba, right bank of the Rio Tapajóz, Brazil.)

Southern banks and affluents of the middle Amazon from the Madeira to the Guamá.

Malacoptila panamensis inornata (DuBus)

Monasa inornata DuBus, Bull. Acad. Roy. Sci. Belg., **14**, Aug., 1847, pt. 2, p. 107. (Guatemala.)

Tropical zone of the Caribbean slope of Central America from Guatemala to northern Nicaragua.

Malacoptila panamensis fuliginosa Richmond

Malacoptila fuliginosa Ridgway MS. Richmond, Proc. U. S. Nat. Mus., **16**, 1893, p. 512, in text. (Río Escondido, Nicaragua.)

Tropical zone of southeastern Nicaragua, northwestern Costa Rica, and eastern Costa Rica to the Chiriquí Lagoon region of western Panamá.

Malacoptila panamensis panamensis Lafresnaye

Malacoptila panamensis Lafresnaye, Rev. Zool., March, 1847, p. 79. (Panamá.)

Malacoptila costaricensis Cabanis, Journ. f. Orn., **10**, 1862, p. 172. (Costa Rica; the type probably came from Guaitil in central-western Costa Rica.) [1]

[1] *fide* van Rossem, Bull. Mus. Comp. Zoöl., **77**, 1934, p. 409.

Malacoptila panamensis Var. *typica* Sclater, Cat. Bds. Brit. Mus., 19, 1891, p. 197. (Panamá.)

Tropical zone of southwestern Costa Rica through northwestern Panamá to the Canal Zone and Darien; northwestern Colombia south to the Baudó Mts.

Malacoptila panamensis poliopis Sclater

Malacoptila poliopis Sclater, Proc. Zool. Soc. London, 1862, p. 86, pl. 8. (Esmeraldas, Ecuador.)

Tropical zone of southwestern Colombia, and western Ecuador from San José to Portovelo.

Malacoptila panamensis magdalenae Todd

Malacoptila panamensis magdalenæ Todd, Ann. Carnegie Mus., 30, 1943, p. 15. (El Tambor, Santander, Colombia.)

Tropical zone of the Magdalena Valley in Colombia.

Malacoptila mystacalis (Lafresnaye)

Monasa mystacalis Lafresnaye, Rev. et Mag. Zool. (2), 2, 1850, p. 215. (Colombia; restricted to Valparaiso, Santa Marta, by Chapman, *antea,* 1917, p. 324.)

Malacoptila aspersa Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123. (Venezuela.)

Subtropical [1] zone of all three ranges of the Andes and of the Santa Marta Mountains of Colombia, and the mountains of northwestern Venezuela.

Genus **MICROMONACHA** Sclater

Micromonacha Sclater, Monograph Jacamars and Puff-birds, pt. 5, July, 1881, p. 131, pl. 44; Proc. Zool. Soc. London, Oct., 1881, p. 776, f. 1; p. 777. (Type, by monotypy, *Bucco lanceolata* Deville).

cf. Sclater, Cat. Bds. Brit. Mus., 19, 1891, p. 199.

?Micromonacha lanceolata austinsmithi Dwight and Griscom

Micromonacha lanceolata austinsmithi Dwight and Griscom, Am. Mus. Novit., no. 142, 1924, p. 2. (Carillo, Costa Rica.)

Eastern Costa Rica (Carillo) and western Panama (Río Calovevora). Doubtfully distinct from *M. l. lanceolata.*

Micromonacha lanceolata lanceolata (Deville)

Bucco lanceolata Deville, Rev. et Mag. Zool. (2), 1, 1849, p. 56. (Pampa del Sacramento, upper Amazon.)

[1] This bird is probably a zonal representative of *M. panamensis.*

Tropical and subtropical zones of western Colombia from the headwaters of the Río San Juan south to Buenavista; eastern Ecuador, eastern Perú and adjacent parts of western Brazil (Rio Juruá).

Genus **NONNULA** Sclater

Nonnula Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 124. Type, by original designation, *Bucco rubecula* Spix.

Microtrogon W. Bertoni, An. Cient. Paraguayos, (1), no. 1, 1901, p. 41. Type, present designation, *Microtrogon fulvescens* Bertoni = *Bucco rubecula* Spix.[1]

cf. Hellmayr, Nov. Zool., **17**, 1910, p. 393–395.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 315–316.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 399–402.

Nonnula rubecula duidae Chapman

Nonnula duidæ Chapman, Bull. Am. Mus. Nat. Hist., **33**, 1914, p. 195. (Foot of Mt. Duida, 700 feet, Venezuela.)

Southern Venezuela in the region at the base of Mt. Duida.

Nonnula rubecula cineracea Sclater

Nonnula cineracea Sclater, Proc. Zool. Soc. London, 1881, p. 778. (Río Javary, Perú.)

Western Brazil and adjacent parts of northeastern Perú (Río Javary, upper Rio Negro, Rio Madeira, Rio Juruá, Rio Purús, Rio Solimões).

Nonnula rubecula simplex Todd

Nonnula rubecula simplex Todd, Ann. Carnegie Mus., **25**, 1937, p. 248. (Villa Braga, Rio Tapajóz, Brazil.)

Northeastern Brazil in State of Pará (Rio Jamundá, Rio Tapajóz).

Nonnula rubecula rubecula (Spix)

Bucco rubecula Spix, Av. Bras., **1**, 1824, p. 51, pl. 39, f. 1. (Malhada, Rio São Francisco, Brazil.)

Microtrogon fulvescens W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 41. (Puerto Bertoni, Paraguay.)

[1] *Microtrogon* Bertoni was published with two contained species. Of these the first is *Microtrogon fulvescens* Bertoni (=*Bucco rubecula* Spix) which is described in the fullest detail; the second is *Microtrogon galbuloides* Bertoni so incompletely described that it has never been satisfactorily identified with any known species, in fact it is not clear whether the description was based on a bird seen but not collected, or from memory of a specimen that had been lost; there is no assurance that it is a bucconid at all.

Nonnula hellmayri Chrostowski, Ann. Mus. Zool. Polonici Hist. Nat., 1, 1921, p. 39. (Vera Guarany, Paraná, Brazil.)

Southeastern Brazil in states of Baía, Goiáz, Minas Gerais, Rio de Janeiro, São Paulo and Paraná; Paraguay; northeastern Argentina in Gobernación de Misiones.

Nonnula sclateri Hellmayr

Nonnula sclateri Hellmayr, Bull. Brit. Orn. Cl., 19, 1907, p. 55. (Humaythá, Rio Madeira, Brazil.)

Western Brazil on the Rio Juruá, Rio Eirú, Rio Purús and the upper Rio Madeira.

Nonnula brunnea Sclater

Nonnula brunnea Sclater, Ibis, 1881, p. 600. (Sarayacu, Ecuador.)

Tropical zone of Colombia (except western), eastern Ecuador and eastern Perú.

Nonnula frontalis frontalis (Sclater)

Malacoptila frontalis Sclater, Ann. and Mag. Nat. Hist. (2), 13, 1854, p. 479. (Colombia.)

Panamá from the Canal Zone eastward; northern Colombia eastward through the lower Cauca and Magdalena valleys to the Lebrija Valley, Santander.

Nonnula frontalis pallescens Todd

Nonnula frontalis pallescens Todd, Proc. Biol. Soc. Washington, 32, 1919, p. 116. (Fundación, Santa Marta, Colombia.)

Littoral of northeastern Colombia.

Nonnula ruficapilla rufipectus Chapman

Nonnula ruficapilla rufipectus Chapman, Am. Mus. Novit., no. 332, 1928, p. 8. (Puerto Indiana, Perú.)

Northeastern Perú north of the Amazon (Ríos Napo and Amazon).

Nonnula ruficapilla ruficapilla (Tschudi)

Lypornix ruficapilla Tschudi, Arch. Naturg., 10, 1844, Bd. 1, p. 300. (Perú, = Vitoc Valley.)

Eastern Perú in the valleys of the Marañon, Huallaga and the Ucayali; western Brazil on the Rio Juruá.

Nonnula ruficapilla nattereri Hellmayr

Nonnula ruficapilla nattereri Hellmayr, Anz. Orn. Ges. Bayern, no. 5, 19 Dec., 1921, p. 42. (Villa Maria [now São Luiz de Caceres], Rio Paraguay, Mato Grosso.)

Nonnula ruficapilla pallida Cherrie and Reichenberger, Am. Mus. Novit., no. 27, 28 Dec., 1921, p. 4. (Tapirapoan, Mato Grosso.)

Western Mato Grosso on the upper Guaporé and upper Paraguay drainage.

Nonnula amaurocephala Chapman

Nonnula amaurocephala Chapman, Am. Mus. Novit., no. 2, 1921, p. 2. (Manacapurú, Rio Solimões, Brazil.)

Western Brazil on the left bank of the Rio Solimões (Codajáz, Manacapurú).

Genus **HAPALOPTILA** Sclater

Hapaloptila Sclater, Proc. Zool. Soc. London, Oct., 1881, p. 776; p. 777, f. 2; Monograph Jacamars and Puff-birds, pt. 6, Nov., 1881, p. 143, pl. 47. Type, by original designation and monotypy, *Malacoptila castanea* Verreaux.

cf. Sclater, Cat. Bds. Brit. Mus., **19**, 1891, p. 202.

Hapaloptila castanea (J. Verreaux)

Malacoptila castanea J. Verreaux, Rev. et Mag. Zool. (2), **18**, 1866, p. 355, pl. 19. (Bogotá; region of Frontino, Antioquia, Colombia, substituted by Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 405, note b.)

Subtropical zone of western Colombia and western Ecuador.

Genus **MONASA** Vieillot

Monasa Vieillot, Analyse, 1816, p. 27. Type, by monotypy, Coucou noir de Cayenne of Buffon = *Cuculus ater* Boddaert.

cf. Griscom, Auk, **50**, 1933, p. 303–304.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 392–402.

Monasa atra (Boddaert)

Cuculus niger P. L. S. Müller, Natursyst., Suppl., 1776, p. 90. (Cayenne.) Not *Cuculus niger* Linné, 1758.

Cuculus ater Boddaert, Table Pl. enlum., 1783, p. 30. (Cayenne, *ex* Daubenton, pl. 512.)

Southern Venezuela, the Guianas and northern Brazil from the Rio Negro to Obidos.

Monasa nigrifrons nigrifrons (Spix)

Bucco nigrifrons Spix, Av. Bras., **1**, 1824, p. 53, pl. 41, f. 2. (Rio Solimões, Brazil.)

Monasa nigrifrons itapurana H. and R. Ihering, Cat. Fauna Braz., 1, 1907, p. 177, 413. (Itapura, São Paulo.)

Southeastern Colombia, eastern Ecuador and eastern Perú, extending north of the Amazon to the Rio Negro and south of the Amazon east to Piauí, south to Mato Grosso, São Paulo and Minas Gerais.

Monasa nigrifrons canescens Todd

Monasa nigrifrons canescens Todd, Ann. Carnegie Mus., **25**, 1937, p. 247. (Santa Cruz de la Sierra, Bolivia.)

Tropical Bolivia east of the Andes.

Monasa morphoeus grandior Sclater and Salvin

Monasa grandior Sclater and Salvin, Proc. Zool. Soc. London, 1868, p. 327. (Angostura, Costa Rica.)

Caribbean slope of Nicaragua, Costa Rica and northwestern Panamá.

Monasa morphoeus fidelis Nelson

Monasa fidelis Nelson, Smiths. Misc. Coll., **56**, 1912, no. 37, p. 1. (Cerro Azul, 800 feet, Panamá.)

Monasa similis Nelson, Smiths. Misc. Coll., **56**, 1912, no. 37, p. 1. (Cerro Azul, 800 feet, Panamá.)

Eastern Panamá: Cerro Azul, Río Chepo.

Monasa morphoeus pallescens Cassin

Monasa pallescens Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1860, p. 134. (Río Truando, Colombia.)

Monasa pallescens minor Nelson, Proc. Biol. Soc. Washington, **26**, 1913, p. 67. (Marraganti, eastern Panamá.)

Panamá from the Río Chimán eastward; northwestern Colombia in the Atrato and upper San Juan valleys.

Monasa morphoeus sclateri Ridgway

Monasa sclateri Ridgway, Proc. Biol. Soc. Washington, **25**, 1912, p. 89. (Central Colombia; type a Bogotá trade skin.)

Northern Colombia in the lower Cauca and Magdalena valleys.

Monasa morphoeus peruana Sclater

Monasa peruana Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 194. (Upper Amazon in eastern Perú; type from Chamicurros, Ucayali Valley.)

Southeastern Colombia, eastern Ecuador, eastern Perú, and northwestern Brazil east to the Rio Negro and the lower Madeira.

Monasa morphoeus morphoeus (Hahn and Küster)

Bucco Morphoeus "Wagler" Hahn and Küster, Voeg. aus Asien, Afrika, Amerika and Neuholland, Lief. 14, 1823, pl. 2 and text. (Brazil.)

Monasa rikeri Ridgway, Proc. Biol. Soc. Washington, **25**, 1912, p. 88. (Diamantina, lower Amazon, Brazil.)

Amazonian Brazil south of the Amazon from the Tapajóz to the Capim; occurring also in the states of Piauí, Goiáz, Baía, Minas Gerais, Espirito Santo and Rio de Janeiro.

Monasa morphoeus boliviana Carriker

Monasa morpheus [sic] *bolivianus* [sic] Carriker, Proc. Acad. Nat. Sci. Philadelphia, **87**, 1935, p. 320. (Rurrenabaque, Río Beni, Bolivia.)

Northeastern Bolivia (Río Beni, Río Coroico).

Monasa flavirostris Strickland

Monasa flavirostris Strickland, in Jardine's Contr. Orn. for 1850, p. 47, pl. 48. (Perú.)

Monasa axillaris Lafresnaye, Rev. et Mag. Zool. (2), **2**, April, 1850, p. 216. (Rio Negro.)

Eastern Colombia, eastern Ecuador, eastern Perú and western Brazil (Rio Negro, Rio Purús).

Genus **CHELIDOPTERA** Gould

Chelidoptera Gould, Proc. Zool. Soc. London, pt. 4, 1836 (1837), p. 81. Type, by monotypy, *Lypornix tenebrosa* Wagler = *Cuculus tenebrosus* Pallas.

cf. Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., **12**, 1929, p. 429–430.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 319–320.

Chelidoptera tenebrosa tenebrosa (Pallas)

Cuculus tenebrosus Pallas, Neue Nordische Beyträge, **3**, 1782, p. 2, pl. 1, f. 1. (Surinam.)

Chelidoptera tenebrosa pallida Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., **1**, 1913, p. 288. (Empalado Savannas, thirty miles east of Maracaibo, Venezuela.)

Venezuela, the Guianas, eastern Colombia, eastern Ecuador, eastern Perú, northern Bolivia, northern and central Brazil south to Mato Grosso, Goiáz and northwestern Baía.

Chelidoptera tenebrosa brasiliensis Sclater

Chelidoptera brasiliensis Sclater, Cat. Am. Bds., 1862, p. 275. (Southeastern Brazil.)

Eastern and southeastern Brazil from Alagoas (possibly Pernambuco) to São Paulo.

Superfamily CAPITONOIDEA

Family CAPITONIDAE

Genus CAPITO Vieillot

Capito Vieillot, Analyze, 1816, p. 27. Type, by monotypy, Tamatia à tête et gorge rouges of Buffon = *Bucco niger* P. L. S. Müller.

Parabarbatula Miranda Ribeiro, Arch. Mus. Nac. Rio de Janeiro, 28, 1926, p. 12, 13. Type, by monotypy, *Parabarbatula dayi* (Cherrie) = *Capito dayi* Cherrie.

cf. Berlioz, Ois. et Rev. Franç. d' Orn. (n.s.), 7, 1937, p. 231–239.

Chapman, Am. Mus. Novit., no. 335, 1928, p. 1–21.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 319–324.

Ripley, Auk, 62, 1945, p. 547–549.

Capito aurovirens (Cuvier)

Bucco aurovirens Cuvier, Règne Anim., nouv., éd., 1, 1829, p. 458. (Perú *ex* LeVaillant, Ois de Paradis, pl. E.)

Amazonian Colombia, Ecuador and Perú; northwestern Brazil to the lower Solimões.

Capito maculicoronatus maculicoronatus Lawrence

Capito maculicoronatus Lawrence, Ann. Lyc. Nat. Hist. N. Y., 7, 1861, p. 300. (Atlantic side of the Isthmus of Panamá.)

Western Panamá from Veraguas to the Canal Zone.

Capito maculicoronatus pirrensis Nelson

Capito maculicoronatus pirrensis Nelson, Smiths. Misc. Coll., 60, 1913, no. 21, p. 1. (Cana, 1800 feet, eastern Panamá.)

Pacific slope of Darien and adjacent parts of northwestern Colombia (Río Salaquí).

Capito maculicoronatus melas Griscom

Capito maculicoronatus melas Griscom, Bull. Mus. Comp. Zoöl., 72, 1932, p. 340. (Puerto Obaldia, Caribbean slope of Darien, Panamá.)

Caribbean slope of eastern Panamá.

Capito maculicoronatus rubrilateralis Chapman

Capito maculicoronatus rubrilateralis Chapman, Bull. Am. Mus. Nat. Hist., **31**, 1912, p. 144. (Juntas de Tamaná, 800 feet, Colombia.)

Tropical zone of western Colombia south to Buenaventura.

Capito squamatus Salvin

Capito squamatus Salvin, Ibis, 1876, p. 494, pl. 14. (Santa Rita, Ecuador.)

Southwestern Colombia and western Ecuador.

Capito hypoleucus Salvin

Capito hypoleucus Salvin, Bull. Brit. Orn. Cl., **7**, 1897, p. xvi. (Valdivia, 3800 feet, Antioquia, Colombia.)

Lower Cauca—Magdalena region of Colombia.

Capito dayi Cherrie

Capito dayi Cherrie, Bull. Am. Mus. Nat. Hist., **35**, 1916, p. 394. (Porto Velho, near San Antonio, Rio Madeira, Brazil.)

Western Brazil on the Rio Jamary, Rio Jaurú and Rio Madeira.

Capito quinticolor Elliot

Capito quinticolor Elliot, Nouv. Arch. Mus. Hist. Nat. Paris, **1**, 1865, Bull., p. 76, pl. 4, fig. 1. (Colombia.)

Tropical zone of the Pacific Coast of Colombia; five specimens known.

Capito niger niger (P. L. S. Müller)

Bucco niger P. L. S. Müller, Natursyst., Suppl., 1776, p. 89. (No locality = Cayenne, *ex* Buffon.)

The Guianas, and northeastern Brazil north of the Amazon (Obidos, Rio Jamundá, Lago Cuipeva).

Capito niger punctatus (Lesson)

Bucco punctatus Lesson, Traité d'Orn., livr. 3, 1830, p. 165. (No locality; Buenavista, Colombia suggested by Chapman, 1928, p. 10.)

Capito auratus macintyrei Brodkorb, Proc. Biol. Soc. Washington, **52**, 1939, p. 135. (Andoas, Río Pastaza, Ecuador.)

Capito auratus conjunctus Brodkorb, Proc. Biol. Soc. Washington, **52**, 1939, p. 135. (Pozuzo, Perú.)

Tropical zone at the eastern base of the Andes from Colombia (Buenavista) to Perú (junction of the Ucayali and the Urubamba).

Capito niger intermedius Berlepsch and Hartert

Capito auratus intermedius Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 98. (Nericagua, Río Orinoco, Venezuela.)

Known only from the Maipures region of the upper Orinoco.

Capito niger aurantiicinctus Dalmas

Capito aurantiicinctus Dalmas, Bull. Zool. Soc. France, **25**, 1900, p. 177. (Río Caura, Venezuela.)

Venezuela from the right bank of the Orinoco near the mouth of the Caura, south to Mt. Duida.

Capito niger auratus (Dumont)

Bucco auratus Dumont, Dict. Sci. Nat., éd. Levrault, **4**, 1816, p. 54. (Perú; Sarayaçu [= Sarayacu], Río Ucayali, suggested as the restricted type locality by Chapman, 1928, p. 5.)

Tropical zone of the lower Río Ucayali, Perú.

Capito niger orosae Chapman

Capito auratus orosæ Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 8. (Right bank of the Marañon near the mouth of the Orosa, Perú, opposite a point midway between Pebas and the mouth of the Napo.)

Known only from the type locality and the Rio Eirú in western Brazil.

Capito niger amazonicus Deville and Des Murs

Capito amazonicus Deville and Des Murs, Rev. et Mag. Zool. (2), **1**, 1849, p. 161, 171. (Ega and Santa Maria, Brazil; Ega [now Tefé] fixed as type locality by Chapman, 1928, p. 7.)

Capito aurantiiventris Ridgway, Proc. Biol. Soc. Washington, **25**, 1912, p. 87. (From "an unknown locality in the upper Amazon valley".)

Amazonian Brazil from São Paulo de Olivença on the right bank of the Solimões east to Tefé and south to the left bank of the Rio Purús (Hyutanahan).

Capito niger transilens Friedmann

Capito auratus transilens Friedmann, Proc. Biol. Soc. Washington, **58**, 1945, p. 113. (Santa Isabel, Rio Negro, Amazonas, Brazil.)

Upper Rio Negro in Brazil.

Capito niger nitidior Chapman

Capito auratus nitidior Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 6. (Tonantins, left bank of the Rio Solimões, below the mouth of the Putumayo, Brazil.)

Northwestern Brazil on the left bank of the Solimões below its junction with the Putumayo; Rio Uaupés.

Capito niger hypochondriacus Chapman

Capito auratus hypochondriacus Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 15. (Manacapurú, left bank of the Solimões near its junction with the Rio Negro, Brazil.)

Known only from the type locality.

Capito niger novaolindae Chapman

Capito auratus novaolindæ Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 9. (Nova Olinda, left bank of the Rio Purús, Brazil.)

Known only from the type locality.

Capito niger arimae Chapman

Capito auratus arimæ Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 10. (Arimã, right bank of the lower Rio Purús, Brazil.)

Right bank of the lower Rio Purús from the Amazon to Arimã.

Capito niger insperatus Cherrie

Capito auratus insperatus Cherrie, Bull. Am. Mus. Nat. Hist., **35**, 1916, p. 391. (Todos Santos, Río Chaparé, Bolivia.)

Humid tropical zone of Bolivia, west to southeastern Perú and north to Calama on the right bank of the Rio Madeira, Brazil.

Capito niger bolivianus Ridgway

Capito auratus bolivianus Ridgway, Proc. Biol. Soc. Washington, **25**, 1912, p. 87. (Río Beni,[1] Bolivia.)

Range unknown.

Capito niger brunneipectus Chapman

Capito brunneipectus Chapman, Am. Mus. Novit., no. 2, 1921, p. 1. (Villa Braga, Rio Tapajóz, Brazil.)

Rio Tapajóz, Brazil.

Genus **EUBUCCO** Bonaparte

Eubucco Bonaparte, Consp. Av., **1**, 1850, p. 142. Type by subsequent designation, *Capito richardsoni* G. R. Gray (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 91.)

cf. Berlioz, Ois. et Rev. Franç. d'Orn. (n.s.), **7**, 1937, p. 225–231.

Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 324–325.

[1] Locality probably erroneous, *cf.* Chapman, Bull. U. S. Nat. Mus., no. 117, 1921, p. 74.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 314–319.

Ripley, Auk, 62, 1945, p. 547–549 (part).

Eubucco richardsoni richardsoni (G. R. Gray)

Capito richardsoni G. R. Gray, Gen. Bds., 2, 1846, p. [430], pl. CVI. (No locality = Ecuador.)

Capito granadensis Shelley, Cat. Bds. Brit. Mus., 19, 1891, p. 108 (in key), p. 115, pl. 5, f. 5. (Bogotá, Colombia.)

Tropical zone of eastern Colombia, eastern Ecuador, and eastern Perú north of the Marañon.

Eubucco richardsoni nigriceps Chapman

Eubucco richardsoni nigriceps Chapman, Am. Mus. Novit., no. 332, 1928, p. 7. (Junction of the Apiyacu and the Amazon, near Pebas, Perú.)

Known only from the region near Pebas, Perú.

Eubucco richardsoni aurantiicollis Sclater

Eubucco aurantiicollis Sclater, Proc. Zool. Soc. London, pt. 25, 1857 (1858), p. 267. (Río Javari and Río Ucayali, Perú.)

Eastern Perú south of the Marañon, and western Brazil south of the Amazon, east to the Rio Madeira.

Eubucco richardsoni coccineus Carriker

Eubucco richardsoni coccineus Carriker, Proc. Acad. Nat. Sci. Philadelphia, 82, 1930, p. 367. (Puerto Yessup, Dept. Junín, Perú.)

Known only from the type locality in central Perú.

Eubucco bourcierii salvini (Shelley)

Capito salvini Shelley, Cat. Bds. Brit. Mus., 19, 1891, p. 108 (in key), p. 119, pl. 5, f. 4. (Costa Rica to Chiriquí.)

Subtropical zone of Costa Rica and western Panamá.

Eubucco bourcierii anomalus Griscom

Eubucco bourcieri anomalus Griscom, Bull. Mus. Comp. Zoöl., 69, 1929, p. 163. (Cana, Darien.)

Subtropical and upper tropical zone of eastern Panamá.

Eubucco bourcierii occidentalis Chapman

Eubucco bourcieri occidentalis Chapman, Bull. Am. Mus. Nat. Hist., 33, 1914, p. 608. (San Antonio, 6600 feet, Western Andes above Cali, Colombia.)

Subtropical zone of the Western Andes of Colombia.

Eubucco bourcierii bourcierii (Lafresnaye)

Micropogon Bourcierii Lafresnaye, Rev. Zool., 1845, p. 179. (Bogotá, Colombia.) = ♂

Micropogon Hartlaubii Lafresnaye, Rev. Zool., 1845, p. 180. (Bogotá, Colombia.) = ♀

Subtropical zone of the eastern slope of the Central Andes and western slope of the Eastern Andes of Colombia.

Eubucco bourcierii aequatorialis (Salvadori and Festa)

Capito aequatorialis Salvadori and Festa, Boll. Mus. Zool. Anat. Comp. Torino, **15**, 19 Feb., 1900, no. 368, p. 22. (Intac, Ecuador.)

Capito shelleyi Dalmas, Bull. Soc. Zool. France, **25**, Nov., 1900, p. 179. (Napo, Ecuador, error, probably = western Ecuador.)

Subtropical zone of the western slope of the Andes in Ecuador.

Eubucco bourcierii orientalis Chapman

Eubucco bourcieri orientalis Chapman, Bull. Am. Mus. Nat. Hist., **33**, 1914, p. 609. (Zamora, 2000 feet, Prov. Loja, Ecuador.)

Subtropical zone of the eastern slope of the Andes in Ecuador.

Eubucco bourcierii tucinkae (Seilern)

Capito tucinkae Seilern, Verh. Orn. Ges. Bayern, **11**, 1913, p. 276. (Yahuarmayo, Carabaya, Perú.)

Eastern slopes of the Andes in southeastern Perú.

Eubucco versicolor steerii (Sclater)

Capito steerii Sclater, Proc. Zool. Soc. London, 1878, p. 140, pl. 12. (Moyobamba, Perú.)

Northern Perú (Moyobamba, Nuevo Loreto, Vista Alegre, Huachipa).

Eubucco versicolor glaucogularis (Tschudi)

Capito glaucogularis Tschudi, Arch. Naturg., **10**, 1844, Bd. 1, p. 301. (Perú.)

Central Perú (Chanchamayo) intergrading with *E. v. versicolor* in the Urubamba valley.

Eubucco versicolor versicolor (P.L.S. Müller)

Bucco versicolor P. L. S. Müller, Natursyst., Suppl., 1776, p. 88. (Maynas, Perú.)

Southern Perú and northwestern Bolivia.

Genus **SEMNORNIS** Richmond

Tetragonops Anonymous = Jardine, Edinburgh New Philos. Journ. (n.s.), **2**, Oct., 1855, p. 404. Type, by monotypy, *Tetragonops ramphastinus* Jardine. Not *Tetragonops* Gerstäcker, Feb. or Mar. 1855, Coleoptera.

Pan Richmond, Auk, **16**, 1899, p. 77. New name to replace *Tetragonops* Jardine, preoccupied. Not *Pan* Oken, 1816, Mammalia.

Semnornis Richmond, Auk, **17**, 1900, p. 179. New name to replace *Pan* Richmond, preoccupied.

Dicrorhynchus Carriker, Ann. Carnegie Mus., **6**, 1910, p. 571. Type, by original designation and monotypy, *Tetragonops frantzii* Sclater.

cf. Berlioz, Ois. et Rev. Franç. d'Orn. (n.s.), **7**, 1937, p. 224–225.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 313 (in key), p. 324–327.

Semnornis frantzii (Sclater)

Tetragonops frantzii Sclater, Ibis, 1864, p. 371, pl. 10. (Near San José, Costa Rica.)

Subtropical zone of Costa Rica and western Panamá.

Semnornis ramphastinus caucae Gyldenstolpe

Semnornis ramphastinus caucae Gyldenstolpe, Ark. Zool., **33A**, 1941, no. 6, p. 15. (La Costa, Cauca district, western slope of the Western Andes, Colombia.)

Subtropical zone of the Western Andes of Colombia.

Semnornis ramphastinus ramphastinus (Jardine)

Tetragonops ramphastinus Anonymous = Jardine, Edinburgh New Philos. Journ. (n.s.), **2**, 1855, p. 404. (Eastern Cordillera between Quito and Mt. Cayambe, Ecuador.)

Subtropical zone of the Andes of Ecuador.

Genus **PSILOPOGON** S. Müller

Psilopogon S. Müller, Tijdschr. Nat. Gesch. en Phys., **2**, 1835, p. 339. Type, by monotypy, *Psilopogon pyrolophus* S. Müller.

cf. Chasen, Bull. Raffles Mus., no. 11, 1935, p. 140.

Robinson, Bds. Malay Pen., **2**, 1928, p. 94–96, pl. 4.

Psilopogon pyrolophus S. Müller

Psilopogon pyrolophus S. Müller, Tijdschr. Nat. Gesch. en Phys., **2**, 1835, p. 339, pl. VIII, f. 3. (Sumatra.)

Bucco pyrolophus Temminck, Pl. col., livr. 101, 1836, pl. 597. (Sumatra.)

Hills of the main range of the Malay Peninsula from north of Perak to south of Selangor, and on the Larut Hills; Sumatra above 3000 feet.

Genus **MEGALAIMA** G. R. Gray

Megalaima G. R. Gray, Appendix to List Gen. Bds., 1842, p. 12. Type, by original designation and monotypy, *Bucco grandis* Gmelin = *Bucco virens* Boddaert.

Megalæma a *Chotorea* Bonaparte, Ateneo Italiano, **2**, 1854, p. 127. (Consp. Vol. Zygodact., p. 12.) Type, by subsequent designation *Bucco javensis* Horsfield (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 90.)

Megalæma c *Cyanops* Bonaparte, Ateneo Italiano, **2**, 1854, p. 127. (Consp. Vol. Zygodact., p. 12.) Type, by subsequent designation, *Bucco asiaticus* Latham (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 90.)

Megalæma d *Xantholæma* Bonaparte, Ateneo Italiano, **2**, 1854, p. 127. (Consp. Vol. Zygodact., p. 12.) Type, by subsequent designation, *Bucco philippensis* Gmelin. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 90.)

Mezobucco Shelley, Ibis, 1889, p. 477. Type, by original designation, *M. duvauceli* = *Bucco duvaucelii* Lesson.

Thereiceryx Blanford, Ibis, 1893, p. 237. Type, by original designation, *Bucco zeylanicus* Gmelin.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 104–130.

Berlioz, Ois. et Rev. Franç. d'Orn. (n.s.), **7**, 1936, p. 34–55.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 134–140.

Delacour and Jabouille, Ois. Indochine Franç., **2**, 1931, p. 243–257.

Hachisuka, Bds. Phil. Ids., **2**, 1934, p. 228–230.

Riley, Bull. U. S. Nat. Mus., no. 172, 1938, p. 199–210.

Ripley, Auk, **62**, 1945, p. 550–555.

Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., **37**, 1934, p. 515–518.

Megalaima virens marshallorum (Swinhoe)

Megalæma Marshallorum Swinhoe, Ann. and Mag. Nat. Hist. (4), **6**, 1870, p. 348. (Himalayas.)

Northwestern Himalayas, between 3000 and 8000 feet, from Kashmir to Simla.

Megalaima virens magnifica Stuart Baker

Megalaima virens magnifica Stuart Baker, Bull. Brit. Orn. Cl., **47**, 1926, p. 43. (Machi, Manipur.)

Assam and the hills of northern Burma.

Megalaima virens clamator Mayr

Megalaima virens clamator Mayr, Ibis, 1941, p. 489. (Shweli-Salween divide, 8000 feet.)

Upper Burma in the Hpimaw Hills and the Shweli-Salween divide.

Megalaima virens virens (Boddaert)

Bucco virens Boddaert, Table Pl. enlum., 1783, p. 53. (China, *ex* Daubenton, pl. 871.)

Eastern and southern China from southern Szechuan, Yunnan, Kiangsi and Chekiang, south to Tenasserim, northern Siam, Laos and northern Annam.

Megalaima lagrandieri rothschildi (Delacour)

Megalæma lagrandieri rothschildi Delacour, Bull. Brit. Orn. Cl., **47**, 1927, p. 153. (Backan, Tonkin.)

Tonkin, northern Annam and northern Laos.

Megalaima lagrandieri lagrandieri J. Verreaux

Megalaima Lagrandieri J. Verreaux, Nouv. Arch. Mus. Paris, **4**, 1868, Bull., p. 87, pl. 4. (Baria, Cochinchina.)

Southern Laos, central and southern Annam and Cochinchina.

Megalaima zeylanica kangrae (Whistler)

Thereiceryx zeylanicus kangrae Whistler, Journ. Bombay Nat. Hist. Soc., **37**, 1934, p. 516. (Ranital, 2000 feet, Kangra.)

Western Himalayas from Kangra to Gahrwal.

Megalaima zeylanica inornata Walden

Megalaima inornata Walden, Ann. and Mag. Nat. Hist. (4), **5**, 1870, p. 219. (Malabar, Coorg, and Candeish.)

Western India from Mt. Abu and the Godavari River, south at least to Cannanore.

Megalaima zeylanica caniceps (Franklin)

Bucco caniceps Franklin, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31 (1831), p. 121. ("On the Ganges between Calcutta and Benares, and in the Vindhyian Hills between the latter place and Gurrah Mundela on the Nerbudda.")

Central and eastern India.

Megalaima zeylanica zeylanica (Gmelin)

Bucco Zeylanicus Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 408. (Ceylon.)

Travancore and Ceylon.

Megalaima zeylanica hodgsoni (Bonaparte)

Megalaema hogdsoni [sic] Bonaparte, Consp. Av., **1**, 1850, p. 144. (Nepal.)

Thereiceryx lineatus intermedius Stuart Baker, Bull. Brit. Orn. Cl., **39**, 1918, p. 18. (Pahpoon, Burma.)

The Himalayas from Mussoorie and Simla to eastern Assam, the Shan States and Annam, south to the Malay Peninsula, Siam, Cambodia and Cochinchina.

Megalaima zeylanica lineata (Vieillot)

Capito lineatus Vieillot, Nouv. Dict. Hist. Nat., **4**, 1816, p. 500. ("Australasie", error = Java.)

Java and Bali.

Megalaima viridis (Boddaert)

Bucco viridis Boddaert, Table Pl. enlum., 1783, p. 53. (Mahé, India, *ex* Daubenton, pl. 870.)

Hill ranges of the southern part of the Indian Peninsula.

Megalaima faiostricta praetermissa (Kloss)

Thereiceryx flavostrictus [sic] *prætermissus* Kloss, Ibis, 1918, p. 101. (Southern China; type from Nanchan Island, Kwangtung.)

Thereiceryx faiostrictus pallidus Delacour, Bull. Brit. Orn. Cl., **47**, 1927, p. 154. (Backan, Tonkin.)

Southern China and Tonkin.

Megalaima faiostricta faiostricta (Temminck)

Bucco faiostrictus Temminck, Pl. col., livr. 88, 1831, pl. 527. (Cochinchina.)

Cyanops faiostricta saigonensis Neumann, Bull. Brit. Orn. Cl., **23**, 1908, p. 31. (Saigon, Cochinchina.)

Siam and the greater part of French Indochina (except Tonkin).

Megalaima corvina (Temminck)

Bucco corvinus Temminck, Pl. col., livr. 88, 1831 pl. 522. (Java, Sumatra and Borneo, = Java.)

Java.

?Megalaima chrysopogon laeta (Robinson and Kloss)

Chotorhea chrysopogon subsp. *laetus* Robinson and Kloss, Journ. Fed. Malay States Mus., **8**, 1918, p. 141. (Bukit Tangga, Negri Sembilan, Malay Peninsula.)

Peninsular Siam from about lat. 11° 40′ N. southward over the Malay Peninsula. Doubtfully distinct from *M. c. chrysopogon.*

Megalaima chrysopogon chrysopogon (Temminck)

Bucco chrysopogon Temminck, Pl. col., livr. 48, 1824, pl. 285. (Sumatra.)

Sumatra.

Megalaima chrysopogon chrysopsis Goffin

Megalaima chrysopsis Goffin, Mus Pays-Bas, **1**, 1863, Buccones, p. 15. (Borneo.)

Borneo.

Megalaima rafflesii malayensis (Chasen)

Chotorhea rafflesii malayensis Chasen, Orn. Monatsb., **43**, 1935, p. 147. (Pulau Ubin, near Singapore.)

Southern Tenasserim southward over the Malay Peninsula.

Megalaima rafflesii rafflesii [1] (Lesson)

Bucco Rafflesii Lesson, Rev. Zool., 1839., p. 137. (Sumatra.)

Sumatra, Banka.

Megalaima rafflesii billitonis (Chasen)

Chotorhea rafflesii billitonis Chasen, Orn. Monatsb., **43**, 1935, p. 147. (Billiton Island.)

Islands of Billiton and Mendanau.

Megalaima rafflesii borneensis (W. Blasius)

Chotorea versicolor (Raffl.) v. n. *borneensis* W. Blasius, Verh. zool.-bot. Ges. Wien, **33**, 1883, p. 25. (Southeastern Borneo.)

Borneo.

Megalaima mystacophanos mystacophanos (Temminck)

Bucco mystacophanos Temminck, Pl. col., livr. 53, 1824, pl. 315. (Sumatra.)

Cyanops mystacophanes aurantiifrons Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, **3**, 1919, p. 100. (Nong Kok, Ghirbi, Peninsular Siam.)

Southern Tenasserim southward over the Malay Peninsula; Sumatra.

[1] Replaces *Bucco versicolor* Raffles, 1821, not *Bucco versicolor* P.L.S. Müller, 1776.

Megalaima mystacophanos humii (Marshall and Marshall)

Megalaema humii C. H. T. and G. F. L. Marshall, Ibis, 1870, p. 536. (Borneo.)

Borneo.

Megalaima mystacophanos ampala (Oberholser)

Chotorea mystacophanes ampala Oberholser, Smiths. Misc. Coll., **60**, 1912, no. 7, p. 6. (Tana Bala Island, Batu Islands.)

Batu Islands.

Megalaima javensis (Horsfield)

Bucco Javensis Horsfield, Trans. Linn. Soc. London, **13**, pt. 1, 1821, p. 181. (Java.)

Java.

Megalaima flavifrons (Cuvier)

Bucco flavifrons Cuvier, Règne Anim., 1817 (1816), p. 428, note 2. (Ceylon. Based on LeVaillant, Ois. de Paradis, pl. 55.)

Ceylon.

Megalaima franklinii franklinii (Blyth)

Bucco Franklinii Blyth, Journ. As. Soc. Bengal, **11**, pt. 1, 1842, p. 167. (Darjeeling.)

Cyanops franklini tonkinensis Delacour, Bull. Brit. Orn. Cl., **47**, 1927, p. 153. (Tan Dao, Tonkin.)

At elevations between 2000 and 6000 feet in the mountains of Nepal, Sikkim, northern Burma, southern Yunnan, Tonkin, northern Laos and northern Annam.

Megalaima franklinii ramsayi (Walden)

Megalæma Ramsayi Walden, Ann. and Mag. Nat. Hist. (4), **15**, 1875, p. 400. (2000–4000 feet, Karenni Hills.)

Mountains of the Southern Shan States, Burma from Karenni to Muleyit, northern and western Siam.

Megalaima franklinii auricularis (Robinson and Kloss)

Cyanops franklini auricularis Robinson and Kloss, Ibis, 1919, p. 428. (Langbian Peaks, 5500–6500 feet, Annam.)

Mountains of southern Laos and southern Annam.

Megalaima franklinii trangensis (Riley)

Cyanops franklini trangensis Riley, Proc. Biol. Soc. Washington, **47**, 1934, p. 116. (Kao Nom Plu, 3000 feet, Trang, Siam.)

Mountains of Peninsular Siam.

Megalaima franklinii minor (Kloss and Chasen)

Cyanops franklini minor Kloss and Chasen, Bull. Brit. Orn. Cl., 46, 1926, p. 57. (Gunong Ijan, 4700 feet, Perak, Malay States.)

Mountains of the Malay Peninsula.

Megalaima oorti oorti (S. Müller)

Bucco Oorti S. Müller, Tijdschr. Nat. Gesch. en Phys., 2, 1835, p. 341, pl. VIII, f. 4. (Sumatra.)

Mountains of the Malay Peninsula and of Sumatra.

Megalaima oorti annamensis (Robinson and Kloss)

Cyanops oorti annamensis Robinson and Kloss, Ibis, 1919, p. 428. (Dalat, 5000 feet, Annam.)

Langbian Plateau in southern Annam and Bolovens Plateau, southern Laos.

Megalaima oorti nuchalis (Gould)

Megalæma nuchalis Gould, Proc. Zool. Soc. London, 1862 (1863), p. 283. (Formosa.)

Formosa.

Megalaima oorti faber (Swinhoe)

Megalæma faber Swinhoe, Ibis, 1870, p. 96, pl. 4, f. 1. (Hainan.)

Hainan.

Megalaima oorti sini (Stresemann)

Cyanops faber sini Stresemann, Journ. f. Orn., 77, 1929, p. 336. (Mountains of northern Kwangsi, 2000–3500 feet.)

Mountains of southeastern China in Province of Kwangsi.

Megalaima asiatica asiatica (Latham)

Trogon asiaticus Latham, Index Orn., 1, 1790, p. 201. (India = Calcutta, *fide* Stuart Baker.)

Northern India from Mussoorie and Kashmir eastward to Assam, south to Burma and the Northern Shan States.

Megalaima asiatica rubescens (Stuart Baker)

Cyanops rubescens Stuart Baker, Nov. Zool., 3, 1896, p. 257. (Highest ranges in the east of the Cachar Hills.)

Confined to the higher hills of Assam south of the Brahmaputra; Manipur, Lushai, Khasia and Cachar Hills in Burma.[1]

[1] Apparently an erythristic population occurring within the range of *C. a. asiatica,* but at higher elevations.

Megalaima asiatica davisoni Hume

Megalaima Davisoni Anonymous = Hume, Stray Feath., **5**, 1877, p. 108. (Meetan, Tenasserim.)

Cyanops davisoni laurentii Wells, Bull. Brit. Orn. Cl., **43**, 1923, p. 174. (Yuen Chang [150 miles south of Yunnanfu], Yunnan.)

Southern Shan States, Karenni, Tenasserim, Siam, southeastern Yunnan, Kwangsi, Tonkin, northern Laos and northern Annam.

Megalaima asiatica chersonesus (Kloss and Chasen)

Cyanops asiatica chersonesus Kloss and Chasen, Bull Brit. Orn. Cl., **48**, 1927, p. 46. (Khao Luang, Nakawn Sritamarat, 4500 feet, Peninsular Siam.)

Mountains of Peninsular Siam.

Megalaima asiatica monticola (Sharpe)

Cyanops monticola Sharpe, Ann. and Mag. Nat. Hist. (6), **3**, 1889, p. 424. (Mt. Kina Balu, Borneo.)

Mountains of northern Borneo.

Megalaima incognita incognita Hume

Megalaima incognita Anonymous = Hume, Stray Feath., **2**, 1874, p. 442. (25 miles north of Yea and Karope, Tenasserim.)

Tenasserim.

Megalaima incognita euroa (Deignan)

Cyanops incognita euroa Deignan, Journ. Washington Acad. Sci., **29**, 1939, p. 177. (Khao Sa Bap, Chantabun, Siam.)

Southeastern Siam, Laos, Tonkin, Annam and Cambodia.

Megalaima henricii henricii (Temminck)

Bucco henricii Temminck, Pl. col., livr. 88, 1831, pl. 524. (Sumatra.)

Peninsular Siam and the Malay States; Sumatra.

Megalaima henricii brachyrhyncha (Neumann)

Cyanops henricii brachyrhyncha Neumann, Bull. Brit. Orn. Cl., **23**, 1908, p. 30. (Batulang, Baram River, Borneo.)

Borneo, except mountains of northwestern part.

Megalaima armillaris armillaris (Temminck)

Bucco armillaris Temminck, Pl. col., livr. 15, 1821, pl. 89, f. 1. (Java.)

Western and central Java.

Megalaima armillaris baliensis (Rensch)

Cyanops armillaris baliensis Rensch, Orn. Monatsb., **36**, 1928, p. 80. (Gitgit, Bali.)

Eastern Java and Bali.

Megalaima pulcherrima (Sharpe)

Megalæma pulcherrima Sharpe, Ibis, 1888, p. 393, pl. 11, f. 2. (Mt. Kina Balu, Borneo.)

Mountains of northwestern Borneo.

Megalaima robustirostris (Stuart Baker)

Cyanops robustirostris Stuart Baker, Journ. Bombay Nat. Hist. Soc., **10**, 1896, p. 356, pl. F.[1] (North Cachar Hills.)

North Cachar.

Megalaima australis cyanotis (Blyth)

Bucco cyanotis Blyth, Journ. As. Soc. Bengal, **16**, pt. 1, 1847, p. 465. (Arakan.)

Mesobucco duvaugli [sic] *orientalis* Robinson, Ibis, 1915, p. 738. (Ok Yam, Cambodia-Siam border.)

Cyanops australis invisa Deignan, Auk, **58**, 1941, p. 398. (Pang Ma :kham Phong, foot of Doi Pha, Sa :kaeng, Siam.)

Sikkim, Assam, Burma south to northern Tenasserim, Laos and Annam, Siam, Cambodia and Cochinchina.

Megalaima australis stuarti (Robinson and Kloss)

Mesobucco duvauceli stuarti Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, **3**, 1919, p. 100. (Klong Tung Sai, Junk Seylon, Siam.)

Peninsular Burma and Siam.

Megalaima australis duvaucelii (Lesson)

Bucco Duvaucelii Lesson, Traité d' Orn., livr. 3, 1830, p. 164. (Sumatra.)

Megalaema duvauceli borneonensis Parrot, Abh. K. Bayerischen Akad. Wiss., Math.-Phys. Kl., **22**, 1907, p. 171. (Borneo.)

Cyanops duvauceli robinsoni Stuart Baker, Bull. Brit. Orn. Cl., **39**, 1918, p. 20. (Klang, southern Malay Peninsula.)

Malay Peninsula, Sumatra, Banka, Borneo.

Megalaima australis gigantorhinus (Oberholser)

Mezobucco duvaucelii gigantorhinus Oberholser, Smiths. Misc. Coll., **60**, 1912, no. 7, p. 6. (Lafau, Nias Island.)

Nias Island.

[1] The plate is lettered *Mezobucco robustirostris.*

Megalaima australis tanamassae (de Schauensee)

Mezobucco duvauceli tanamassae de Schauensee, Proc. Acad. Nat. Sci. Philadelphia, **81**, 1929, p. 521. (Pulo Tana Massa, Batu Islands.)

Batu Islands.

Megalaima australis australis (Horsfield)

Bucco australis Horsfield, Trans. Linn. Soc. London, **13**, pt. 1, 1821, p. 181. (Java.)

Java.

Megalaima australis hebereri (Rensch)

Xantholaema australis hebereri Rensch, Mitt. Zool. Mus. Berlin, **16**, 1930, p. 532. (Gitgit, Bali.)

Bali.

Megalaima eximia eximia (Sharpe)

Mesobucco eximius Sharpe, Ibis, 1892, p. 324, 441, pl. 11. (Mt. Dulit, Borneo.)

Mountains of Sarawak, Borneo.

Megalaima eximia cyanea (Harrisson and Hartley)

Mesobucco duvaucelii cyaneus Harrisson and Hartley, Bull. Brit. Orn. Cl., **54**, 1934, p. 151. (Mt. Kina Balu, Borneo.)

Confined to Mt. Kina Balu, Borneo.

Megalaima rubricapilla malabarica (Blyth)

Bucco malabaricus Blyth, Journ. As. Soc. Bengal, **16**, pt. 1, 1847, p. 465. (Malabar.)

Xantholaema haemacephala confusa Koelz, Proc. Biol. Soc. Washington, **52**, 1939, p. 78. (Londa, Bombay Presidency.)

Western coast of India from Goa to southern Travancore.

Megalaima rubricapilla rubricapilla (Gmelin)

Bucco rubricapillus Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 408. (Ceylon.)

Ceylon.

Megalaima haemacephala indica (Latham)

Bucco indicus Latham, Index Orn., **1**, 1790, p. 205. (Calcutta.)

Bucco luteus Lesson, Traité d' Orn., livr. 3, 1830, p. 163. (Pondicherry.)

Northwestern India, Nepal, Sikkim, Assam, southern Yunnan, and Laos, south over the whole of the Indian Peninsula (except area occupied by *malabarica.*), to the northern Malay States, Siam, Cambodia and Cochinchina; Ceylon.

Megalaima haemacephala delica (Parrot)

Megalaema haemacephala delica Parrot, Abh. K. Bayerischen Akad. Wiss., Math.-Phys. Kl., 22, 1907, p. 169. (Deli, Sumatra.)

Sumatra.

Megalaima haemacephala rosea (Dumont)

Bucco roseus Dumont, Dict. Sci. Nat., éd. Levrault, 4, 1816, p. 52. (No locality = Java, *ex* Levaillant, Ois. de Paradis, pl. 33.)

Java and Bali.

Megalaima haemacephala haemacephala (P. L. S. Müller)

Bucco haemacephalus P. L. S. Müller, Natursyst., Suppl., 1776, p. 88. (Philippine Islands.)

Philippine Islands: Luzon, Mindoro, Samar, Leyte, Mindanao.

Megalaima haemacephala intermedia (Shelley)

Xantholæma intermedia Shelley, Cat. Bds. Brit. Mus., 19, 1891, p. 88 (in key), p. 97. (Negros and Cebu, Philippine Islands.)

Philippine Islands: Tablas, Romblon, Masbate, Guimaras, Negros, Cebu.

Genus CALORHAMPHUS Lesson

Calorhamphus Lesson, Rev. Zool., 1839, p. 138. Type, by monotypy, *Calorhamphus sanguinolentus* Lesson = *Bucco hayii* J. E. Gray.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 102–104.

Berlioz, Ois. et Rev. Franç. d' Orn. (n.s.), 6, 1936, p. 33–34.

Calorhamphus fuliginosus hayii (J. E. Gray)

Bucco Hayii J. E. Gray, Zool. Misc., 1831, p. 33. (Molucca = Malacca.)

Southern Tenasserim and Peninsular Siam, southward over the Malay Peninsula; Sumatra.

Calorhamphus fuliginosus fuliginosus (Temminck)

Mycropogon fuliginosus Temminck, Pl. col., livr. 83, 1830. (West coast of Borneo, *i.e.* Pontianak.)

Borneo (except northern).

Calorhamphus fuliginosus tertius Chasen and Kloss

Calorhamphus fuliginosus tertius Chasen and Kloss, Journ. f. Orn., Ergänzungb. II, 1929, p. 110. (Bettotan, near Sandakan, British North Borneo.)

Northern Borneo.

Genus **GYMNOBUCCO** Bonaparte

Gymnobucco Bonaparte, Consp. Av., **1**, 1850, p. 141. Type, by monotypy, *Bucco calvus* Lafresnaye.

Heliobucco Shelley, Ibis, 1889, p. 476. Type, by original designation and monotypy, *H. bonapartii* = *Gymnobucco bonapartei* Hartlaub.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 379–384.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 510–519.

Gymnobucco calvus calvus (Lafresnaye)

Bucco calvus Lafresnaye, Rev. Zool., 1841, p. 241. (Locality unknown = Ashanti.)

Forests of West Africa from Sierra Leone to Southern Nigeria.

Gymnobucco calvus major Neumann

Gymnobucco calvus major Neumann, Journ. f. Orn., **68**, 1920, p. 80. (Buea, Cameroons.)

Cameroon Mountain to Gaboon.

Gymnobucco calvus congicus Chapin

Gymnobucco calvus congicus Chapin, Am. Mus. Novit., no. 570, 1932, p. 5. (Thysville, Lower Congo district, Belgian Congo.)

Gallery forests of the lower Congo and northern Angola.

Gymnobucco calvus vernayi Boulton

Gymnobucco calvus vernayi Boulton, Ann. Carnegie Mus., **21**, 1931, p. 44. (Mombolo, 6000 feet, district of Cuanza Sul, Angola.)

Highlands of Benguella.

Gymnobucco peli Hartlaub

Gymnobucco Peli Hartlaub, Syst. Orn. Westafr., 1857, p. 175. (Dabocrom, Gold Coast.)

Gold Coast Colony, Southern Nigeria, Cameroons and Gaboon.

Gymnobucco sladeni Ogilvie-Grant

Gymnobucco sladeni Ogilvie-Grant, Bull. Brit. Orn. Cl., **19**, 1907, p. 42. (Mawambi, Congo Forest.)

Gymnobucco adolfi-friederici Reichenow, Orn. Monatsb., **16**, 1908, p. 160. (Forest north of Beni, Upper Congo.)

Upper Congo forests from the Ubangi River eastward to the Semliki valley and south to the Kasai.

Gymnobucco bonapartei bonapartei Hartlaub

Gymnobucco Bonapartei Verr. Hartlaub, Journ. f. Orn., 2, 1854, p. 410. (Gaboon.)

Western Cameroons and Gaboon eastward to the Ituri Forest and south to Kwamouth and the Kasai district.

Gymnobucco bonapartei intermedius van Someren

Gymnobucco bonapartei intermedius van Someren, Bull Brit. Orn. Cl., 41, 1921, p. 105. (Mabira Forest, Uganda.)

Eastern borders of the upper Congo Forest from the Bomu River to the forest patches of the Bahr el Ghazal, Uganda, base of Mt. Ruwenzori, the Rutshuru Valley and the highlands east of Lake Tanganyika and thence to the Lulua district.

Gymnobucco bonapartei cinereiceps Sharpe

Gymnobucco cinereiceps Sharpe, Ibis, 1891, p. 122. (Mt. Elgon, East Africa.)

Western Kenya Colony from Mt. Elgon to Nandi.

Genus **SMILORHIS** Sundevall

Smilorhis Sundevall, Meth. Nat. Av. Disp. Tent., 1872, p. 75. Type, by monotypy, *Megalaema leucotis* Sundevall.

cf. Reichenow, Vög. Afr., 2, 1903, p. 142, spp. nos. 702, 703, 704. Sclater, Syst. Av. Ethiop., pt. 1, 1924, p. 278–279.

Smilorhis leucotis kenyae Bowen

Smilorhis leucotis kenyæ Bowen, Proc. Acad. Nat. Sci. Philadelphia, 82, 1930, p. 3. (Meru, Kenya Colony.)

Highlands of southern and central Kenya Colony (Meru, Nairobi).

Smilorhis leucotis kilimensis Shelley

Smilorhis kilimensis Shelley, Ibis, 1889, p. 477 (Kilimanjaro district; type from Taveta, Kenya Colony.)

Southern Kenya Colony (Taveta) and the Kilimanjaro district in Tanganyika Territory, south to the Usambara and Magrotto Mts.

Smilorhis leucotis leucogrammicus (Reichenow)

Buccanodon leucogrammicum Reichenow, Orn. Monatsb., 23, 1915, p. 90. (Sanyi, Mahenge, Tanganyika Territory.)

Tanganyika Territory in the Uluguru Mts. and the Rufiji Valley.

Smilorhis leucotis leucotis (Sundevall)

Megalæma leucotis Sundevall, Œfv. Vet.-Akad. Förhandl., 7, 1850, p. 109. (Lower Caffraria *i.e.* Natal.)

Shire highlands of Nyasaland south to Zululand and Natal.

Smilorhis leucotis bocagei (Sousa)

Barbatula Bocagei Sousa, Jorn. Sci. Math. Phys. e Nat., Acad. Real Sci. Lisboa, **11**, 1886, p. 158. (Caconda, Benguella.)

Angola.

Genus **STACTOLAEMA** Marshall and Marshall

Stactolæma C. H. T. and G. F. L. Marshall, Proc. Zool. Soc. London, 1870, p. 118. Type, by original designation and monotypy, *S. anchietæ* = *Buccanodon anchietae* Bocage.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 384–385.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 507–509.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot. **2**, 1938, p. 710–711 (part, *olivacea* only).

Stactolaema olivacea olivacea (Shelley)

Barbatula olivacea Shelley, Ibis, 1880, p. 334, pl. 7. (Rabbai, near Mombasa, Kenya Colony.)

Coastal forests of Kenya Colony from the mouth of the Tana River southward, and mountains of Tanganyika Territory (Usambara, Uluguru, Rungwe and Poroto Mts.).

Stactolaema olivacea woodwardi Shelley

Stactolæma woodwardi Shelley, Bull. Brit. Orn. Cl., **5**, 1895, p. iii. (Zululand; type from Echowe.)

Extreme southeastern Tanganyika Territory; Zululand.

Stactolaema olivacea belcheri (Sclater)

Buccanodon belcheri Sclater, Bull. Brit. Orn. Cl., **47**, 1927, p. 85. (Cholo Mt., 4500 feet, Nyasaland.)

Nyasaland and northern Portuguese East Africa.

Stactolaema anchietae rex (Neumann)

Buccanodon anchietæ rex Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 47. (Duque de Braganza, Angola.)

Bailundu district of Angola to the upper Cuango River.

Stactolaema anchietae anchietae (Bocage)

Buccanodon anchietae Bocage, Proc. Zool. Soc. London, 1869, p. 436, pl. 29. (Caconda, Benguella.)

Benguella highlands and the southern Kasai.

Stactolaema anchietae katangae (Vincent)

Buccanodon anchietæ katangæ Vincent, Bull. Brit. Orn. Cl., **54**, 30 June, 1934, p. 176. (Kaluli River, 3000 feet, Katanga Province, Belgian Congo.)

Southern Belgian Congo from eastern Lulua district through the upper Katanga, extending into northern Rhodesia.

Stactolaema whytii stresemanni (Grote)

Buccanodon anchietae stresemanni Grote, Orn. Monatsb., **42**, 5 June, 1934, p. 86. (Kitungulu-Urungu, Tanganyika Territory.)

Region about the southern end of Lake Tanganyika.

Stactolaema whytii whytii (Shelley)

Smilorhis whytii Shelley, Ibis, 1893, p. 11, pl. 1. (Zomba, Nyasaland.)

Region southeast of Lake Nyasa.

Stactolaema whytii sowerbyi Sharpe

Stactolæma sowerbyi Sharpe, Bull. Brit. Orn. Cl., **7**, 1898, p. xxxvi. (Mashonaland, *i.e.* Fort Chiquaqua, *ex* Ibis, 1898, p. 572.)

Angoniland and Mashonaland north to southern Nyasaland (Mzimbaboma).

Stactolaema whytii buttoni (White)

Buccanodon sowerbyi buttoni White, Bull. Brit. Orn. Cl., **65**, 1945, p. 18. (Ndola, Northern Rhodesia.)

Known only from the vicinity of the type locality.

Genus **POGONIULUS** Lafresnaye [1]

Pogoniulus Lafresnaye, Dict. Univ. Hist. Nat., **2**, 1844 (1842), p. 463. Type, by original designation, Barbion de Levaillant (*Bucco parvus* Gmel.) [*i.e. Bucco parvus* auct., not of Gmelin] = *Bucco pusillus* Dumont.[2]

Buccanodon Hartlaub, Syst. Orn. Westafr., 1857, p. 171. Type, by monotypy, *Barbatula duchaillui* Cassin.

Viridibucco Oberholser, Proc. U. S. Nat. Mus., **28**, 1905, p. 825, 865. Type, by original designation, *Barbatula leucomystax* Sharpe.

[1] Replaces *Barbatula* Lesson, 1837, preoccupied.

[2] *Bucco nanus* Boddaert, 1783, and *Bucco parvus* Gmelin, 1788, are based chiefly on the "Barbu du Sénégal" of Daubenton, Pl. enlum. no. 746, f. 2. I am unable to recognize in Daubenton's figure any of the so-called African "tinker birds"; nor are either of the names based on his figure in current use.

Micropogonius (subgenus) Roberts, Ann. Transvaal Mus., **8**, 1922, p. 221. Type, by original designation and monotypy, *Megalaema bilineata* Sundevall.

Microbucco Roberts, Ann. Transvaal Mus., **10**, 1924, p. 86. New name for *Micropogonius* Roberts, supposedly preoccupied.[1]

Barbatulides Strand, Arch. Naturg., **92**, Abth. A, 1928, Heft 8, p. 57. New name for *Barbatula* Lesson, 1837. Not *Barbatula* Linck 1790, Pisces.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 386–399.

Chapin, Bull. Am. Mus. Hist., **75**, 1939, p. 492–507.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 451–457.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., **2**, 1938, p. 712–722.

Ripley, Auk, **62**, 1945, p. 558–560.

Pogoniulus duchaillui duchaillui (Cassin)

Barbatula Duchaillui Cassin, Proc. Acad. Nat. Sci. Philadelphia **7**, 1855 (1856), p. 324. (Moonda River, Gaboon.)

Buccanodon ugandae Reichenow, Sitzungsb. Deutsche Orn. Ges., Jan., 1892. (Mengo, Uganda.)

West African forest belt from Sierra Leone and Gaboon eastward through the Uelle district and the Semliki Valley to Uganda and Kavirondo.

Pogoniulus duchaillui gabriellae (Bannerman)

Buccanodon duchaillui gabriellæ Bannerman, Bull. Brit. Orn. Cl., **44**, 1924, p. 100. (Pangala, 80 miles northwest of Brazzaville, French Congo.)

Known only from the type locality in southern French Congo, but perhaps occurs in the Mayombe Forest of the Belgian Congo.

Pogoniulus scolopaceus scolopaceus (Bonaparte)

Xylobucco scolopaceus Temm. Bonaparte, Consp. Av., **1**, 1850, p. 141. (Ashanti.)

West Africa from Sierra Leone to Calabar.

Pogoniulus scolopaceus stellatus (Jardine and Fraser)

Bucco stellatus Jardine and Fraser, in Jardine's Contr. Orn. for 1851 (1852), p. 155. (Clarence, Fernando Po.)

Island of Fernando Po.

[1] Although not so stated, apparently *Micropogonias* Bonaparte, 1831, Pisces, was the name Dr. Roberts had in mind.

Pogoniulus scolopaceus flavisquamatus (Verreaux and Verreaux)

Barbatula flavisquamata J. and E. Verreaux, Journ. f. Orn., **3**, 1855, p. 101. (Cape Lopez, Gaboon.)

Southern Cameroons, Gaboon and French Congo, eastward to the Uelle, the Semliki valley, the Manyema and the Kasai.

Pogoniulus scolopaceus aloysii (Salvadori)

Xylobucco Aloysii Salvadori, Boll. Mus. Zool. Anat. Comp. Torino, **21**, 1906, no. 542, p. 2. (near Entebbe, Uganda.)

Uganda and western Kenya Colony.

Pogoniulus scolopaceus flavior Ripley

Pogoniulus scolopaceus angolensis Bannerman, Bull. Brit. Orn. Cl., **53**, 1933, p. 184. (Ndala Tando, Angola.)

Pogoniulus scolopaceus friedmanni Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 398, in text. *Nomen nudum, lapsus* for *angolensis.*

Pogoniulus scolopaceus flavior Ripley, Auk, **62**, 1945, p. 560 and note. New name for *P. s. angolensis* Bannerman, not *Viridibucco coryphaea angolensis* Boulton.

Northern Angola.

Pogoniulus leucomystax leucomystax (Sharpe)

Barbatula leucomystax Sharpe, Ibis, 1892, p. 310. (Sotik, Kenya Colony.)

Inland districts of Kenya Colony from Mt. Elgon to Sotik and southward through the interior of Tanganyika Territory to western Nyasaland.

Pogoniulus leucomystax chyulu (van Someren)

Viridibucco leucomystax chyulu van Someren, Journ. E. Afr. and Uganda Nat. Hist. Soc., **14**, 1939, p. 43. (Chyulu Hills, Kenya Colony.)

Chyulu Hills, Kenya Colony.

Pogoniulus simplex (Fischer and Reichenow)

Barbatula simplex Fischer and Reichenow, Journ. f. Orn., **32**, 1884, p. 180. (Massailand = Pangani River, Tanganyika Territory, *ex* Vög. Afr., **2**, 1903, p. 146.)

Kenya Colony and Tanganyika Territory from south of Mombasa to southern Nyasaland; Island of Zanzibar.

Pogoniulus coryphaeus coryphaeus (Reichenow)

Barbatula coryphaea Reichenow, Sitzungsb. Deutsche Orn. Ges.

19 Feb., 1892; Journ. f. Orn., **40**, April, 1892, p. 181, pl. 2, f. 2. (Buea, 950 met., Cameroon Mt.)

Highlands of northern and western Cameroons.

Pogoniulus coryphaeus hildamariae (Sclater)

Viridibucco coryphaea jacksoni Sclater, Bull. Brit. Orn. Cl., **51**, 1930, p. 16. (Kanyango, 4500 feet, Toro, Uganda.) Not *Barbatula jacksoni* Sharpe, 1897.

Barbatula hildamariæ Mathews, Bull. Brit. Orn. Cl., **55**, 1934, p. 24. (New name "for *B. jacksoni* Sclater, 1930, not Sharpe, 1897.")[1]

Viridibucco coryphaea hildamariae Sclater, in Jackson, Bds. Kenya Col. and Uganda Prot., **2**, 1938, p. 714. First validation of *nomen nudum.*

Highlands of the eastern Congo and western Uganda.

Pogoniulus coryphaeus angolensis (Boulton)

Viridibucco coryphæa angolensis Boulton, Ann. Carnegie Mus., 21, 1931, p. 46. (Mombolo, 6000 feet, district of Cuanza Sul, Angola.)

Benguella Plateau.

Pogoniulus pusillus uropygialis (Heuglin)

Barbatula uropygialis Heuglin, Journ. f. Orn., **10**, 1862, p. 37. (Ain Saba, Eritrea.)

Eritrea, Bogosland, the greater part of Ethiopia and northern Somaliland.

Pogoniulus pusillus affinis (Reichenow)

Barbatula affinis Reichenow, Orn. Centralbl., **4**, 1879, p. 114. (Kipini, Kenya Colony.)

Barbatula pusillus lollesheid van Someren, Journ. E. Afr. and Uganda Nat. Hist. Soc., no. 37, 1931, p. 193. (Seremli, Juba River, Italian Somaliland.)

From the Turkwell River, Lake Rudolf, the North Guaso Nyiro and southern Somaliland, south to northern Tanganyika Territory.

Pogoniulus pusillus eupterus Grote

Pogoniulus pusillus eupterus Grote, Orn. Monatsb., **36**, 1928, p. 78. (Ukerewe Island, Lake Victoria.)

The parts of Uganda, Kenya Colony and Tanganyika Territory lying northeast and south of Lake Victoria.

[1] Clearly a *nomen nudum* under Opinion no. 138 of the International Commission on Zoological Nomenclature.

Pogoniulus pusillus pusillus (Dumont)

Bucco pusillus Dumont, Dict. Sci. Nat., éd. Levrault, **4**, 1816, p. 50. (Sandag [*i.e.* Sunday] River, Swart Kop River and in the Karrou, Cape Province.)

Southeastern Africa from Swaziland to Algoa Bay.

Pogoniulus chrysoconus chrysoconus (Temminck)

Bucco chrysoconus Temminck, Pl. col., livr. 90, 1832, pl. 536, f. 2. (Galam, Senegal.)

Arid belt from Senegal, Gambia and Portuguese Guinea eastward through the northern territories of Gold Coast and Nigeria to the Benue River.

Pogoniulus chrysoconus schubotzi (Reichenow)

Barbatula chrysocoma schubotzi Reichenow, Orn. Monatsb., **20**, 1912, p. 28. (Fort Archambault, French Sudan.)

Barbatula chrysocoma pallida Wettstein, Anz. K. Akad. Wiss. Wien, Math.-Naturwiss. Kl., **53**, 1916, p. 132. (Kordofan.)

The Sahara from Aïr through Darfur to the Bahr el Ghazal.

Pogoniulus chrysoconus centralis (Reichenow)

Barbatula centralis Reichenow, Orn. Monatsb., **8**, 1900, p. 40. (Njangabo, west of Lake Albert.)

Savannas of the Ubangi and Uelle Rivers eastward through Uganda to Kavirondo.

Pogoniulus chrysoconus zedlitzi (Neumann)

Barbatula chrysocoma zedlitzi Neumann, Bull. Brit. Orn. Cl., **23**, 1908, p. 30. (Sennar.)

Eastern Sudan in the valleys of the White and Blue Niles.

Pogoniulus chrysoconus schoanus (Neumann)

Barbatula chrysocoma schoana Neumann, Journ. f. Orn., **52**, 1904, p. 391. (Dodgit, Metscha Province, Ethiopia.)

Shoa.

Pogoniulus chrysoconus xanthostictus (Blundell and Lovat)

Barbatula xanthosticta Blundell and Lovat, Bull. Brit. Orn. Cl., **10**, 1899, p. xxi. (Chellia, Ethiopia.)

Highlands of central and southern Ethiopia.

Pogoniulus chrysoconus rhodesiae C. H. B. Grant

Pogoniulus chrysoconus rhodesiæ C. H. B. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 100. (Chambezi Valley, northeastern Rhodesia.)

Belgian Congo from the Ruzizi River south to northeastern Rhodesia and northern Nyasaland.

Pogoniulus chrysoconus extoni (Layard)

Barbatula extoni Layard, Ibis, 1871, p. 226. (Kanye, lat. 24° 50′ S., long. 25° 40′ E., Bechuanaland.)

Southern Angola and southeastern Nyasaland south to northern Damaraland and western Transvaal.

Pogoniulus chrysoconus mayri White

Pogoniulus chrysoconus mayri White, Bull. Brit. Orn. Cl., **66**, 1946, p. 43. (Dundu, Angola.)

The Kasai district of the Belgian Congo, south along the Kasai to northeastern Angola.

Pogoniulus bilineatus sharpei (Ogilvie-Grant)

Barbatula sharpei Ogilvie-Grant, Bull. Brit. Orn. Cl., **19**, 29 June, 1907, p. 108. (Cape Coast Castle, Gold Coast.)

Barbatula leucolaima togoensis Neumann, Journ. f. Orn., **55**, July, 1907, p. 347. (Togoland.)

West Africa from Gambia to southern Nigeria.

Pogoniulus bilineatus leucolaima (Verreaux and Verreaux)

Barbatula leucolaima J. and E. Verreaux, Rev. et Mag. Zool. (2), **3**, June, 1851, p. 263. (Gaboon.)

Lower Guinea from Cameroon Mt. and the Genderu Mts. south through Cameroons and Gaboon to central Angola, eastward through the upper Congo and the Kasai to the Uelle district and the Semliki Valley.

Pogoniulus bilineatus poensis (Alexander)

Barbatula poensis Alexander, Bull. Brit. Orn. Cl., **23**, 1908, p. 15. (Moka, Fernando Po.)

Island of Fernando Po.

Pogoniulus bilineatus mfumbiri (Ogilvie-Grant)

Barbatula mfumbiri Ogilvie-Grant, Bull. Brit. Orn. Cl., **19**, 29 June, 1907, p. 107. (Mfumbiro Volcano, 6000 feet, Belgian Congo.)

Barbatula leucolaima nyansæ Neumann, Journ. f. Orn., **55**, July, 1907, p. 347. (Bukoba, Tanganyika Territory.)

Mountain forests along the eastern Congo border from Mt. Ruwenzori to Uganda and the highlands northwest of Lake Tanganyika.

Pogoniulus bilineatus urungensis (Reichenow)

Barbatula leucolaema urungensis Reichenow, Orn. Monatsb., **23**, 1915, p. 91. (Kitungula, Ufipa district, southern end of Lake Tanganyika.)

Region about the southern end of Lake Tanganyika and westward to Dilolo.

Pogoniulus bilineatus jacksoni (Sharpe)

Barbatula jacksoni Sharpe, Bull. Brit. Orn. Cl., **7**, 1897, p. vii. (Mau, Kenya Colony.)

Barbatula kandti Reichenow, Orn. Monatsb., **11**, 1903, p. 23. (Lake Kivu, type from Idjwi Island.)

Mt. Elgon and the highlands of Kenya Colony west of the Rift Valley; Idjwi Island in Lake Kivu.

Pogoniulus bilineatus alius Friedmann

Pogoniulus bilineatus alius Friedmann, Auk, **47**, 1930, p. 86 (Nairobi, Kenya Colony.)

Highlands of Kenya Colony east of the Rift Valley.

Pogoniulus bilineatus fischeri (Reichenow)

Barbatula Fischeri Reichenow, Orn. Centralbl., **5**, 1880, p. 181. (East Africa = Zanzibar, *ex* Journ. f. Orn., **33**, 1885, p. 125.)

Pogoniulus bilineatus rovumensis Grote, Orn. Monatsb., **43**, 1935, p. 53. (Mikindani, Rovuma River, Tanganyika Territory.)

Coastlands of Kenya Colony and Tanganyika Territory from Takaungu to the Rovuma River; islands of Zanzibar and Mafia.

Pogoniulus bilineatus conciliator Friedmann

Pogoniulus bilineatus conciliator Friedmann, Proc. New England Zoöl. Cl., **11**, 1929, p. 36. (Nyange, Uluguru Mts. Tanganyika Territory.)

Tanganyika Territory in the Uluguru Mts.

Pogoniulus bilineatus bilineatus (Sundevall)

Megalæma bilineata Sundevall, Œfv. Vet.-Akad. Förhandl., **7**, 1850, p. 109. ("Caffraria inferiore"; type from the Umlazi River, Natal.)

Eastern Rhodesia, Nyasaland and Mozambique, south to Transvaal and Natal.

Pogoniulus subsulphureus chrysopygus (Shelley)

Barbatula chrysopyga Shelley, Ibis, 1889, p. 477. (Gold Coast.)

West Africa from French Guinea and Sierra Leone to the Gold Coast (Volta River).

Pogoniulus subsulphureus flavimentum (Verreaux and Verreaux)

Barbatula flavimentum J. and E. Verreaux, Rev. et Mag. Zool. (2), **3**, 1851, p. 262. (Gaboon.)

Barbatula subsulphurea ituriensis Neumann, Journ. f. Orn., **55**, 1907, p. 344. (Kitima, Ituri River.)

Southern Nigeria eastward across Cameroons and the Congo forest to the Ituri River and the forests of Uganda, south to Gaboon, the lower Congo and the Kasai.

Pogoniulus subsulphureus subsulphureus (Fraser)

Bucco subsulphureus Fraser, Proc. Zool. Soc. London, pt. **11**, 1843, p. 3. (Clarence, Fernando Po.)

Confined to Fernando Po.

Pogoniulus atro-flavus (Sparrman) [1]

Bucco atro-flavus Sparrman, Vetensk.-Acad. nya Handl., **19**, 1798, p. 305, pl. 9. (Sierra Leone.)

Forests of upper and lower Guinea from Casamance to Portuguese Congo, east to the Uelle district and Mt. Ruwenzori.

Genus **TRICHOLAEMA** Verreaux and Verreaux

Tricholaema J. and E. Verreaux, Journ. f. Orn., **3**, March, 1855, p. 102. Type, by monotypy, *Tricholaema flavipunctata* J. and E. Verreaux.

Notopogonius Roberts, Ann. Transvaal Mus., **8**, 1922, p. 221. Type, by original designation, *Bucco leucomelas* Boddaert.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 376–379.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 516–521.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 443–451.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., **2**, 1938, p. 701–708.

Tricholaema lacrymosum lacrymosum Cabanis

Tricholaema lacrymosa Cabanis, Journ. f. Orn., **26**, 1878, p. 205, 240. (Adi [= Athi] River, Kenya Colony.)

Northern Uganda (Wadelai and Lake Albert) eastward to southern Ethiopia, thence southward through Kenya Colony east of the Rift Valley to central Tanganyika Territory.

Tricholaema lachrymosum narokense Jackson

Tricholæma lachrymosum narokensis Jackson, Bull. Brit. Orn. Cl., **43**, 1923, p. 167. (Doinyo Narok, 4500 feet, Kenya Colony.)

[1] Replaces *Bucco erythronotus* Cuvier, 1816.

Confined to Doinyo Narok, Kenya Colony; doubtfully distinct from *T. l. lachrymosum.*

Tricholaema lachrymosum radcliffei Ogilvie-Grant

Tricholæma radcliffei Ogilvie-Grant, Bull. Brit. Orn. Cl., **15,** 1904, p. 29. (Mulema, 5000 feet, Uganda.)

Extreme eastern Belgian Congo, southern Uganda and extreme southwestern Kenya Colony, from Lake Edward and Kavirondo southward to the region north of Lake Nyasa.

Tricholaema lachrymosum ruahae Neumann

Tricholaema lacrymosum ruahæ Neumann, Bull. Brit. Orn. Cl., **21,** 1908, p. 47. (Uhehe, Tanganyika Territory.)

Inland plateau of central Tanganyika Territory from Dodoma to the Ruaha and Rufiji valleys.

Tricholaema leucomelan namaqua Sclater

Tricholæma leucomelan namaqua Sclater, Bull. Brit. Orn. Cl., **42,** 1922, p. 63. (Klipfontein, 3100 feet, Little Namaqualand.)

Little Namaqualand.

Tricholaema leucomelan nkatiense (Roberts)

Notopogonius leucomelas nkatiensis Roberts, Ann. Transvaal Mus., **15,** 1932, p. 27. (Nkate, Bechuanaland.)

Northern Bechuanaland.

Tricholaema leucomelan centrale (Roberts)

Notopogonius leucomelas centralis Roberts, Ann. Transvaal Mus., **15,** 1932, p. 26. (Rustenberg, Transvaal.)

Transvaal (except eastern.)

Tricholaema leucomelan zuluense (Roberts)

Notopogonius leucomelas zuluensis Roberts, Ann. Transvaal Mus., **14,** 1931, p. 237, p. 240. (Mkuzi River, east of Ubombo, Zululand.)

Notopogonius leucomelas tongensis Roberts, Ann. Transvaal Mus., **15,** 1932, p. 26, text mention in description of *N. l. centralis,* lapsus for *zuluensis.*

Eastern Southern Rhodesia (Mashonaland) south to the lowlands of eastern Transvaal and western Zululand.

Tricholaema leucomelan leucomelan (Boddaert)

Bucco leucomelas Boddaert, Table Pl. enlum., 1783, p. 43. (Cape of Good Hope, *ex* Daubenton, pl. 688, f. 1.)

Southern Cape Province, the Karroo and Orange Free State.

Tricholaema leucomelan affine (Shelley)

Pogonorhynchus affinis Shelley, Proc. Zool. Soc. London, 1879 (1880), p. 680. (Weenen, Natal.)

Natal.

Tricholaema diadematum diadematum (Heuglin)

Pogonorhynchus diadematus Heuglin, Ibis, 1861, p. 124, 126, pl. 5. (Steppes of the Kitsch Negros between lat. 7° and 8° N., upper White Nile.)

Upper White Nile eastward across central Ethiopia to northern Somaliland.

Tricholaema diadematum mustum Friedmann

Tricholaema diadematum mustum Friedmann, Proc. New England Zoöl. Cl., 11, 1929, p. 35. (Guaso Nyiro River, Kenya Colony.)

Northeastern Uganda eastward through Kenya Colony to Mt. Kenya.

Tricholaema diadematum massaicum (Reichenow)

Pogonorhynchus massaicus Reichenow, Journ. f. Orn., 35, 1887, p. 59. (Loeru, Tanganyika Territory.)

Southern Kenya Colony and the northern half of Tanganyika Territory.

Tricholaema diadematum frontatum (Cabanis)

Pogonorhynchus frontatus Cabanis, Journ. f. Orn., 28, 1880, p. 351, pl. 2, f. 1. (Angola.)

Tricholæma alexandri Shelley, Bull. Brit. Orn. Cl., 13, 1903, p. 61. (Namwewe, Nyasaland.)

Angola eastward across the Upper Katanga and northern Rhodesia to Nyasaland.

Tricholaema melanocephalum melanocephalum (Cretzschmar)

Pogonias melanocephala Cretzschmar, in Rüppell's Atlas, 1826, Vög., p. 41, pl. 28, f. a. (Kordofan and Sennar, = Ethiopia? *cf.* Sclater and Mackworth-Praed, Ibis, 1919, p. 637.)

Bogosland and northern Ethiopia south to Addis Ababa and eastward to near Harar.

Tricholaema melanocephalum stigmatothorax Cabanis

Tricholaema stigmatothorax Cabanis, Journ. f. Orn., 26, 1878, p. 205, 240. (Ndi, Taita, Kenya Colony.)

Southern Ethiopia and southern Somaliland across the drier parts of Kenya Colony to northern Tanganyika Territory (Dodoma, Morogoro).

Tricholaema melanocephalum blandi Phillips

Tricholæma blandi Lort Phillips, Bull. Brit. Orn. Cl., **6**, 1897, p. xlvii. (Goolis Mts., Somaliland.)

Central and eastern Somaliland.

Tricholaema flavibuccale Reichenow

Tricholaema flavibuccale Reichenow, Orn. Monatsb., **1**, 1893, p. 30. (Wembere Steppe, Tanganyika Territory.)

Known only from the unique type; status uncertain.

Tricholaema hirsutum hirsutum (Swainson)

Pogonias hirsutus Swainson, Zool. Illustr., **2**, 1821–22 (1821), pl. 72. (Africa; Gold Coast designated as type locality by Sclater, Bull. Brit. Orn. Cl., **42**, 1922, p. 62.)

Sierra Leone to Togoland.

Tricholaema hirsutum hybridum Neumann

Tricholaema hirsutum hybridum Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 46. (Degama, Southern Nigeria.)

Vicinity of the Niger Delta.

Tricholaema hirsutum flavipunctatum Verreaux and Verreaux

Tricholaema flavipunctata J. and E. Verreaux, Journ. f. Orn., **3**, Mar. 1855, p. 102; Rev. et Mag. Zool. (2), **7**, Dec., 1855, p. 555, pl. 14. (Gaboon)

Tricholaema schultzei Reichenow, Orn. Monatsb., **19**, 1911, p. 82. (Molundu, Cameroons.)

Cameroons and Gaboon to the southern French Congo.

Tricholaema hirsutum chapini Bannerman

Tricholæma hirsutum chapini Bannerman, Bull. Brit. Orn. Cl., **44**, 1924, p. 101. (Uelle River, near Djabia [now Bondo], Belgian Congo.)

Southeastern Cameroons eastward to the Uelle and Ituri districts and south to the Kasai.

Tricholaema hirsutum angolense Neumann

Tricholæma hirsutum angolense Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 47. (Golungo Alto, Angola.)

Lower Congo and northern Angola.

Tricholaema hirsutum ansorgii Shelley

Tricholæma ansorgii Shelley, Bull. Brit. Orn. Cl., **5**, 1895, p. iii. (Uganda; type from Entebbe.)

Forests of the eastern Belgian Congo and of Uganda.

Genus LYBIUS Hermann

Lybius Hermann, Tabl. Affin. Anim., 1783, p. 217, note *n*. Type, by monotypy, *Lybius guifsobalito* Hermann.

Pogonornis Billberg, Syn. Faun. Scand., 1, pt. 2, 1828, table A. New name for *Pogonias* Illiger, 1811, not of Lacépède, 1802. Type, by monotypy, *Bucco dubius* Gmelin.

Erythrobucco Shelley, Ibis, 1889, p. 475. Type, by original designation and monotypy, *Erythrobucco rolleti* = *Pogonias rolleti* Defilippi.

Melanobucco Shelley, Ibis, 1889, p. 476. Type, by original designation, *M. bidentatus* (Shaw) = *Bucco bidentatus* Shaw.

Apatelornis Reichenow, Orn. Monatsb., **34**, 1926, p. 146. Type, by monotypy, *Apatelornis wachei* Reichenow = *Bucco dubius* Gmelin.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 363–376.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 521–534.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 434–442.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., **2**, 1938, p. 694.

Macdonald, Ibis, 1938, p. 348–349 (races of *undatus*).

Ripley, Auk, **62**, 1945, p. 560–561.

Lybius undatus thiogaster Neumann

Lybius thiogaster Neumann, Orn. Monatsb., **11**, 1903, p. 59. (Keren, Bogosland.)

Lybius undatus senafensis Neumann, Bull. Brit. Orn. Cl., **23**, 1908, p. 29. (Upper Mareb River, northern Tigré Province, Ethiopia.)

Eritrea and northern Ethiopia.

Lybius undatus undatus (Rüppell)

Pogonias undatus Rüppell, Neue Wirbelth., Vög., 1837, p. 52, pl. 20, f. 2. (Simen Province, Ethiopia.)

Melanobucco tsanæ Ogilvie-Grant, Bull. Brit. Orn. Cl., **13**, 1902, p. 29. (Zegi, Lake Tsana, Ethiopia.)

Central Ethiopia from Lake Tsana to Addis Ababa.

Lybius undatus leucogenys (Blundell and Lovat)

Melanobucco leucogenys Blundell and Lovat, Bull. Brit. Orn. Cl., **10**, 1899, p. xxi. (Konduro, western Ethiopia.)

Lybius undatus gardullensis Neumann, Bull. Brit. Orn. Cl., **14**, 1903, p. 15. (Gardulla, west of Lake Gandjule, Ethiopia.)

Western and southwestern Ethiopia.

Lybius undatus squamatus (Heuglin)

Pogonias squamatus Heuglin, Journ. f. Orn., **11**, 1863, p. 15. (Gorgora on Lake Tana, Ethiopia.)

Lybius undatus salvadorii Neumann, Bull. Brit. Orn. Cl., **14**, 1903, p. 16. (Dinki, near Harar, Ethiopia.)

Harar district of eastern Ethiopia.

Lybius vieilloti buchanani Hartert

Lybius vieilloti buchanani Hartert, Nov. Zool., **31**, 1924, p. 23. (Tebeig, Aïr.)

Southern Sahara from Timbuktu to Aïr and Damergu, probably also eastern Bornu.

Lybius vieilloti rubescens (Temminck)

Pogonias rubescens Temminck, Pl. col., livr. 34, 1823, Binomial name for Barbu rubicon of Le Vaillant. (Senegal.)

Lybius vieilloti tessmanni Grote, Orn. Monatsb., **31**, 1923, p. 110. (Upper Kadei region, Cameroons.)

Thorn scrub and grass-woodland savanna belt from Senegal to Nigeria and northern Cameroons.

Lybius vieilloti vieilloti (Leach)

Pogonius vieilloti Leach, Zool. Misc., **2**, 1815, p. 104, pl. 97. (Africa = Ethiopia by designation of Ogilvie-Grant, Ibis, 1902, p. 426.)

Lybius vieilloti frater Neumann, Journ. f. Orn., **65**, 1917, Bd. 2, p. 201, note 6. (Barentu, upper Barca River, Ethiopia.)

Darfur to Eritrea and Ethiopia, south to the Uelle district and the Bahr el Ghazal.

Lybius torquatus albigularis Neumann

Lybius zombæ albigularis Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 46. (Songea, Tanganyika Territory.)

Headwaters of the Rovuma River and the region east of Lake Nyasa.

Lybius torquatus zombae (Shelley)

Melanobucco zombæ Shelley, Ibis, 1893, p. 10. (Zomba, Nyasaland.)

Highlands south of Lake Nyasa.

Lybius torquatus pumilio Grote

Lybius torquatus pumilio Grote, Orn. Monatsb., **35**, 1927, p. 144. (Uvira, north end of Lake Tanganyika, eastern Belgian Congo.)

Region about the northern end of Lake Tanganyika.

Lybius torquatus irroratus (Cabanis)

Pogonorhynchus irroratus Cabanis, Journ. f. Orn., **26**, 1878, p. 205, 239. (Mombasa, East Africa.)

Coastal districts of East Africa from Lamu to Dar es Salaam and the Morogoro district.

Lybius torquatus congicus (Reichenow)

Melanobucco torquatus congicus Reichenow, in Werther's mittl. Hochl. nordl. Deutsch-Ost-Afr., 1898, p. 273. (Congo region; type from Malanje, Angola.)

Barbatula rubrigularis DuBois, Ann. Mus. Congo, **1**, 1905, fasc. 1, p. 1, pl. 1, f. 1. (Katanga.)

Southeastern Congo, southwestern Tanganyika Territory and adjacent parts of Northern Rhodesia and Angola.

Lybius torquatus torquatus (Dumont)

Bucco torquatus Dumont, Dict. Sci. Nat., éd. Levrault, **4**, 1816, p. 56. (Brazil, error = South Africa; Goffin, Mus. Pays Bas **1**, 1863, Buccones, p. 4.)

South Africa from Benguella and the Zambesi valley, southward; absent from the dry south-west portion.

Lybius guifsobalito guifsobalito Hermann

Lybius guifsobalito Hermann,[1] Tabl. Affin. Anim., 1783, p. 217, note *n.* (Ethiopia.)

Bogosland, Eritrea, Ethiopia (except southeastern) and the Blue Nile district of the Sudan.

Lybius guifsobalito ugandae Berger

Lybius tridactylus ugandae Berger, Orn. Monatsb., **15**, 1907, p. 201. (Nimule, Uganda.)

Savannas of the upper White Nile, the Uelle district, western shore of Lake Albert, and Uganda to the north shore of Lake Victoria.

Lybius rubrifacies (Reichenow)

Pogonorhynchus rubrifacies Reichenow, Sitzungsb. Deutsche Orn. Ges., 19 Jan., 1892; Journ. f. Orn., **40**, 1892, p. 25. (Kimo-ani, south-west of Lake Victoria.)

Region lying west and southwest of Lake Victoria.

Lybius chaplini Stevenson Clarke

Lybius chaplini Stevenson Clarke, Bull. Brit. Orn. Cl., **41**, 1920, p. 50. (Kafue River, lat. 16° S., long. 26° E., Northern Rhodesia.)

[1] Replaces *Lybius abyssinicus* (Latham) of Sharpe's Hand-list.

Lower Kafue valley in Northern Rhodesia.

Lybius leucocephalus adamauae Reichenow

Lybius leucocephalus adamauae Reichenow, Journ. f. Orn., **69**, 1921, p. 46. (Tibati Highlands, Cameroons.)

Savannas of Northern Nigeria, northern Cameroons and the Ubangi-Shari.

Lybius leucocephalus leucocephalus (Defilippi)

Laimodon leucocephalus Defilippi, Rev. et Mag. Zool. (2), **5**, 1853, p. 291. (Between 3° and 4° N. lat., White Nile.)

Lybius leucocephalus ugandae Reichenow, Journ. f. Orn., **69**, 1921, p. 47, in text (Uganda.) Not *Lybius tridactylus ugandae* Berger, 1907.

Bahr el Ghazal and the Uelle district eastward to the upper White Nile, Mt. Elgon and Ankole.

Lybius leucocephalus usukumae Neumann

Lybius leucocephalus usukumæ Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 46. (Kagehi, Usukuma.)

Southern shores of Lake Victoria.

Lybius leucocephalus albicauda (Shelley)

Pogonorhynchus albicauda Shelley, Ibis, 1881, p. 117. (Ugogo, Tanganyika Territory.)

Melanobucco abboti Richmond, Auk, **14**, 1897, p. 164. (Plains of Taveta, Kenya Colony.)

Lybius leucocephalus lynesi Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., **58**, 1938, p. 65. (Iringa, Tanganyika Territory.)

Southern Kenya Colony and northern districts of Tanganyika Territory south to Dodoma, Irangi and Ugogo.

Lybius leucocephalus senex (Reichenow)

Pogonorhynchus senex Reichenow, Journ. f. Orn., **35**, 1887, p. 59. (Ukamba, Ikange.)

Central districts of Kenya Colony and country east of Mt. Kenya.

Lybius leucocephalus leucogaster (Bocage)

Pogonorhynchus leucogaster Bocage, Jorn. Sci. Math. Phys. e Nat., Acad. Real Sci. Lisboa, **6**, 1877, p. 63. (Quillengues, Benguella.)

Western Benguella.

Lybius minor minor (Cuvier)

Bucco Levaillantii Vieillot, Nouv. Dict. Hist. Nat., **3**, 1816, p. 243. (Africa.) Not *Bucco levaillanti* Gmelin, 1806.

Pogonias minor Cuvier, Règne Anim., **1**, 1817 (1816), p. 428, note 2. Based on LeVaillant, Ois de Paradis, pl. A. ("Afrique et aux Indes"; restricted to northern Angola by Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., **62**, 1942, p. 46.)

Lower Congo and the coast near Landana, south to Benguella.

Lybius minor intercedens Neumann

Lybius levaillanti intercedens Neumann, Orn. Monatsb., **16**, 1908, p. 27. (Manyanga, lower Congo River.)

Belgian Congo between the Congo and lower Kasai rivers, east to Kwamouth and south to the interior of northern Angola.

Lybius minor macclounii (Shelley)

Melanobucco macclounii Shelley, Bull. Brit. Orn. Cl., **8**, 1899, p. xxxv. (Nyasaland; type from Luchinde, north of Lake Nyasa.)

Cuango River across the central Belgian Congo, the Katanga district and Northern Rhodesia to the region north of Lake Nyasa.

Lybius melanopterus didymus Grote

Lybius melanopterus didymus Grote, Orn. Monatsb., **37**, 1929, p. 75. (Solole, southern Somaliland.)

Southern Somaliland.

Lybius melanopterus melanopterus (Peters)

Pogonias (Laimodon) melanopterus Peters, Ber. Akad. Wiss. Berlin, 1854, p. 134. (Mocimboa, Mozambique.)

Coastal districts of East Africa from the Juba River south to Nyasaland and Mozambique.

Lybius bidentatus bidentatus (Shaw)

Bucco bidentatus Shaw, Nat. Misc., **10**, 1798, pl. 393 and text. ("Barbary".)

Forested parts of West Africa from Portuguese Guinea to Southern Nigeria.

Lybius bidentatus friedmanni (Bannerman)

Pogonornis bidentatus friedmanni Bannerman, Bull. Brit. Orn. Cl., **53**, 1933, p. 124. (Ndala Tando, Angola.)

Southern Cameroons, lower Congo and northern Angola.

Lybius bidentatus aequatorialis (Shelley)

Melanobucco æquatorialis Shelley, Ibis, 1889, p. 476. (Hparo [*i.e.* Mparu, near Hoima, Uganda], Equatorial Africa.)

Shari River and the Uelle district to western Kenya Colony and northwestern Tanganyika Territory.

Lybius bidentatus aethiops Neumann

Lybius bidentatus æthiops Neumann, Bull. Brit. Orn. Cl., **23**, 1908, p. 29. (Uba, Omo region, Ethiopia.)

Southern Ethiopia and the adjacent parts of the Sudan.

Lybius dubius (Gmelin)

Bucco dubius Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 409. (Barbary Coast.)

Apatelornis wachei Reichenow, Orn. Monatsb., **34**, 1926, p. 146. (Upper Gambia.)

West African semi-arid belt from Senegal to the Logone River.

Lybius rolleti (Defilippi)

Pogonias Rolleti Defilippi, Rev. et Mag. Zool. (2), **5**, 1853, p. 290. (Between lat 3° and 4° N., White Nile.)

African Savanna belt from Baguirmi and the Shari region to Darfur and Bahr el Ghazal.

Genus **TRACHYPHONUS** Ranzani

Trachyphonus Ranzani, Elem. di Zool., **3**, 1821, pt. 2, p. 157. Type, by monotypy, *Trachyphonus vaillantii* Ranzani.

Trachylaemus Reichenow, Sitzungsb. Deutsche Orn. Ges., 17 Dec., 1891; Journ. f. Orn., **40**, 1892, p. 131. Type, by subsequent designation, *Trachyphonus purpuratus* Verreaux and Verreaux. (Reichenow, Vög. Afr., **2**, 1903, p. 159.)

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 400–403.

Bowen, Proc. Acad. Nat. Sci. Philadelphia, **84**, 1932, p. 9–10.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 488–492.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 457–466.

C. H. B. Grant, Ibis, 1915, p. 448–451.

Grote, Orn. Monatsb., **35**, 1927, p. 52.

Neumann, Journ. f. Orn., **76**, 1928, p. 785–786.

Ripley, Auk, **62**, 1945, p. 562–563.

Zedlitz, Journ. f. Orn., **63**, 1915, p. 15–17.

Trachyphonus purpuratus goffinii (Schlegel)

Capito goffinii Schlegel, Mus. Pays-Bas, **1**, 1863, Buccones, p. 72. (Gold Coast.)

West Africa from Sierra Leone to Gold Coast.

Trachyphonus purpuratus togoensis (Reichenow)

Trachylaemus togoensis Reichenow, Sitzungsb. Deutsche Orn. Ges., 17 Dec., 1891; Journ. f. Orn., **40**, 1892, p. 131. (Bismarckburg, Togoland.)

Togoland and southwestern Nigeria.

Trachyphonus purpuratus purpuratus Verreaux and Verreaux

Trachyphonus lurpuratus [sic] J. and E. Verreaux, Rev. et Mag. Zool. (2), **3**, 1851, p. 260. (Gaboon.)

Cameroon Mountain eastward through the Ubangi-Shari to the Aruwimi River and south through Cameroons to northern Angola.

Trachyphonus purpuratus elgonensis Sharpe

Trachyphonus elgonensis Sharpe, Ibis, 1891, p. 122. (Mt. Elgon, East Africa.)

Northeastern Belgian Congo (southern Uelle and Ituri), eastward across Uganda to Mt. Elgon and the Mau Plateau.

Trachyphonus vaillantii suahelicus Reichenow

Trachyphonus suahelicus Reichenow, Journ. f. Orn., **35**, 1887, p. 60. (Usegua, Tanganyika Territory.)

Trachyphonus vaillantii suschkini Grote, Orn. Monatsb., **37**, 1929, p. 76. (Tabora, Unyamwezi, Tanganyika Territory.)

Northern Angola, southeastern Congo, and East Africa from the Pangani to the Zambezi.

Trachyphonus vaillantii nobilis Ogilvie-Grant

Trachyphonus nobilis Ogilvie-Grant, Ibis, 1912, p. 397. (Lake Ngami, 2700 feet, Bechuanaland.)

Bechuanaland: known only from the type in the British Museum.

Trachyphonus vaillantii vaillantii Ranzani

Trachyphonus Vaillantii Ranzani,[1] Elem. di Zool., **3**, 1821, pt. 2, p. 159. (South Africa *ex* LeVaillant = southeastern Cape Province, *fide* Vincent, Bull. Brit. Orn. Cl., **55**, 1935, p. 94.

Southern Africa from about the Zambesi River southward.

Trachyphonus erythrocephalus gallarum Neumann

Trachyphonus erythrocephalus gallarum Neumann, Journ. f. Orn., **76**, 1928, p. 786. (Bussidimo, near Harar, Ethiopia.)

South-central Ethiopia.

Trachyphonus erythrocephalus shelleyi Hartlaub

Trachyphonus shelleyi Hartlaub, Ibis, 1886, p. 106, pl. 5. (Plateau in the interior of Somaliland.)

[1] Replaces *Picus caffer* Vieillot, 1818, not of Gmelin, 1789.

Eastern Ethiopia, northern and central British Somaliland.

Trachyphonus erythrocephalus jacksoni Neumann

Trachyphonus erythrocephalus jacksoni Neumann, Journ. f. Orn., **76**, 1928, p. 785. (Wajheir, 100 miles north of the Lorian Swamp, northeastern Africa.)

Southern Ethiopia, and central Kenya Colony from the eastern end of Lake Rudolf to the Tana River.

Trachyphonus erythrocephalus versicolor Hartlaub

Trachyphonus versicolor Hartlaub, Abhandl. naturwiss. Ver. Bremen, **8**, Heft 1, 1883, p. 208. (Tarrángole, White Nile.)

Mongalla and northern Uganda, east to Lake Rudolf and south in western Kenya Colony to lakes Baringo and Hannington.

Trachyphonus erythrocephalus erythrocephalus Cabanis

Trachyphonus erythrocephalus Cabanis, Journ. f. Orn., **26**, 1878, p. 206, 241, pl. 2. (Ukamba, Kitui, Kenya Colony.)

Teita, Ukamba and Kikuyu districts of Kenya Colony south into Tanganyika Territory in the region about lakes Manyara and Nguruman.

Trachyphonus darnaudii darnaudii (Prévost and Des Murs)

Micropogon darnaudii Prévost and Des Murs, in Lefebvre, Voyage en Abyssinie, **6**, [1847], p. 133. (Kordofan.)

Kordofan eastward to western Ethiopia, south to northern Uganda, and Kenya Colony west of the Rift Valley.

?Trachyphonus darnaudii zedlitzi Berger

Trachyphonus arnaudi [sic] *zedlitzi* Berger, Journ. f. Orn., **59**, 1911, p. 512. (Between Baringo and Hannington lakes, Kenya Colony.)

Kenya Colony in the region about Lake Baringo; very doubtfully distinct from *T. d. darnaudii.*

Trachyphonus darnaudii usambiro Neumann

Trachyphonus darnaudi usambiro Neumann, Bull. Brit. Orn. Cl., **23**, 1908, p. 30. (Usambiro, Tanganyika Territory.)

Interior of Kenya Colony from the Loita Plains and Lake Naivasha to the Mwanza and Irundi districts of Tanganyika Territory.

Trachyphonus darnaudii böhmi Fischer and Reichenow

Trachyphonus Böhmi Fischer and Reichenow, Journ. f. Orn., **32**, 1884, p. 179. (Pare Mts., Arusha, Ukamba and Barawa, = Barawa, Juba River, *apud* Zedlitz, Journ. f. Orn., **63**, 1915, p. 16.)

Southern Italian Somaliland south through eastern Kenya Colony to northeastern Tanganyika Territory.

Trachyphonus darnaudii emini Reichenow

Trachyphonus emini Reichenow, Sitzungsb. Deutsche Orn. Ges., Feb., 1891; Journ. f. Orn., **39**, Apr., 1891, p. 149. (Mpapwa, Tanganyika Territory.) Col. pl., Ibis, 1915, pl. 5.

Central Tanganyika Territory from the Mpapwa and Ugogo districts to the region at the northern end of Lake Nyasa.

Trachyphonus margaritatus kingi Bowen

Trachyphonus margaritatus kingi Bowen, Proc. Acad. Nat. Sci. Philadelphia, **83**, 1931, p. 229. (Erkowit, Red Sea Province, Sudan.)

Red Sea Province of the Anglo-Egyptian Sudan.

Trachyphonus margaritatus berberensis Bowen

Trachyphonus margaritatus berberensis Bowen, Proc. Acad. Nat. Sci. Philadelphia, **84**, 1932, p. 10. (Zeidab, Berber Province, Sudan.)

Arid northern part of the Nile Valley below Khartoum.

Trachyphonus margaritatus margaritatus (Cretzschmar)

Bucco margaritatus Cretzschmar, in Rüppell's Atlas, 1826, Vög., p. 30, pl. 20. (Sennar.)

Aïr and extreme northern Nigeria eastward through the semi-arid belt to western Ethiopia.

Trachyphonus margaritatus somalicus Zedlitz

Trachyphonus margaritatus somalicus Zedlitz, Orn. Monatsb., **18**, 1910, p. 57. (Al Dabar, northern Somaliland.)

Central Ethiopia and northern Somaliland.

Family INDICATORIDAE

Genus PRODOTISCUS Sundevall

Prodotiscus Sundevall, Öfv. K. Vet.-Akad. Förh., **7**, 1850, p. 109. Type, by monotypy, *Prodotiscus regulus* Sundevall.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 420–423.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 535–537.

Prodotiscus insignis flavodorsalis Bannerman

Prodotiscus insignis flavodorsalis Bannerman, Bull. Brit. Orn. Cl., **43**, 1923, p. 161. (Béoumi, 650 feet, Ivory Coast.)

Sierra Leone, Ivory Coast and probably Togoland.

Prodotiscus insignis insignis (Cassin)

Hetærodes insignis Cassin, Proc. Acad. Nat. Sci. Philadelphia, **8**, 1856, p. 157. (Moonda River, Gaboon.)

Southern Cameroons, Gaboon and lower Congo, eastward to the Uelle and Ituri rivers and the Semliki Valley; Uganda and Lake Victoria.

Prodotiscus insignis ellenbecki Erlanger

Prodotiscus ellenbecki Erlanger, Orn. Monatsb., **9**, 1901, p. 182. (Daroli, Arussi Country.)

Prodotiscus reichenowi Madarász, Ann. Mus. Nat. Hungarici, **2**, 1904, p. 206. (Moschi, Mt. Kilimanjaro.)

Southern Ethiopia and Kenya Colony, south to Tanganyika Territory in the region about Mt. Kilimanjaro and in the Usambara Mts.

Prodotiscus insignis zambesiae Shelley

Prodotiscus zambesiæ Shelley, Ibis, 1894, p. 8. (Zomba, Nyasaland.)

The Katanga and Lake Tanganyika, south to Southern Rhodesia, Mashonaland and Mozambique, westward to southern Angola.

Prodotiscus regulus camerunensis Reichenow

Prodotiscus regulus camerunensis Reichenow, Journ. f. Orn., **69**, 1921, p. 46. (Bosum, Cameroons.)

Known only from the unique type.

Prodotiscus regulus regulus Sundevall

Prodotiscus regulus Sundevall, Öfv. K. Vet.-Akad. Förh., **7**, 1850, p. 109. ("Caffraria inferiori et superiori"; type from Mohapoani, Witfontein Berge, western Transvaal.) [1]

Prodotiscus peasei Ogilvie-Grant, Bull. Brit. Orn. Cl., **11**, 1901, p. 67. (Ungi, Ethiopia.)

Sennar and Ethiopia, south through East Africa and the savannas of southeastern Congo to northern Angola and Natal.

Genus **MELIGNOMON** Reichenow

Melignomon Reichenow, Orn. Monatsb., **6**, 1898, p. 22. Type, by original designation, *Melignomon zenkeri* Reichenow.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 418.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 537–538.

[1] See Gyldenstolpe, Ibis, 1934, p. 290.

Melignomon zenkeri Reichenow

Melignomon zenkeri Reichenow, Orn. Monatsb., **6**, 1898, p. 22. (Jaunde, Cameroons.)

Southern Cameroons eastward across the Congo forest to the Semliki Valley, perhaps south to northwestern Angola.

Genus INDICATOR Stephens

Indicator Stephens, in Shaw's Gen. Zool., **9**, pt. 1, 1815, p. 131. Type, by tautonymy, *Indicator Sparrmanii* Stephens = *Cuculus indicator* Sparrman.

Melipodagus Roberts, Ann. Transvaal Mus., **8**, 1922, p. 220. Type, by original designation, *Indicator variegatus* Lesson.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 131–132.

Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 404–418.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 539–553.

Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., **58**, 1938, p. 141–145.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., **2**, 1938, p. 728–737.

Robinson, Bds. Malay Penin., **2**, 1928, p. 97–98.

Zedlitz, Journ. f. Orn., **62**, 1915, p. 7–14.

Indicator exilis ansorgei C. Grant

Indicator exilis ansorgei C. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 100. (Gunnal, Portuguese Guinea.)

Portuguese Guinea; known only from Gunnal.

Indicator exilis leona C. Grant

Indicator exilis leona C. Grant, Bull. Brit. Orn., Cl., **35**, 1915, p. 100. (Sierra Leone.)

Apparently known only from the type, taken near Freetown.

Indicator exilis willcocksi Alexander

Indicator willcocksi Alexander, Bull. Brit. Orn. Cl., **12**, 1901, p. 11. (Prahou, Gold Coast.)

Gold Coast Colony; known only from Prahou.

Indicator exilis hutsoni Bannerman

Indicator hutsoni Bannerman, Bull. Brit. Orn. Cl., **49**, 1928, p. 20. (Tatara, Benue Province, Nigeria.)

Northern Nigeria, Southern Nigeria(?) northern Cameroons(?).

Indicator exilis poensis Alexander

Indicator poensis Alexander, Bull. Brit. Orn. Cl., **13**, 1903, p. 33. (Bakaki, Fernando Po.)

Island of Fernando Po.

Indicator exilis exilis (Cassin)

Melignothes exilis Cassin, Proc. Acad. Nat. Sci. Philadelphia, **8**, 1856, p. 157. (Moonda River, Gaboon.)

Forests of Southern Nigeria and Cameroons, eastward to the Upper Congo, south to the Kasai and the highlands northwest of Lake Tanganyika.

Indicator exilis pachyrhynchus (Heuglin)

Melignothes pachyrhynchus Heuglin, Journ. f. Orn., **12**, 1864, p. 266. (Bongo, southeastern Sudan.)

Indicator pygmaeus Reichenow, Journ. f. Orn., **40**, 1892, p. 24. (Bukoba, Lake Victoria.)

Bahr el Ghazal, Uganda, western Kenya Colony and the Bukoba district of Tanganyika Territory.

Indicator exilis meliphilus (Oberholser)

Melignothes exilis meliphilus Oberholser, Proc. U. S. Nat. Mus., **28**, 1905, p. 869. (Taveta, Kenya Colony.)

Indicator narokensis Jackson, Bull. Brit. Orn. Cl., **19**, 1906, p. 20. (Doinyo Narok, Kenya Colony.)

Indicator appelator Vincent, Bull. Brit. Orn. Cl., **53**, 1933, p. 130. (Near Zobué, Mozambique-Nyasaland border at 2900 feet in lat. 15° 30′ S., long. 34° 37′ E.)

Kenya Colony, Usambara Mts. in Tanganyika Territory, southern Nyasaland.

Indicator exilis angolensis Monard

Indicator minor angolensis Monard, Arquivos Museu Bocage, **5**, 1934, p. 55. (Tyihumbwe and Ebanga, Angola.)

Northern Angola.

Indicator propinquus Friedmann

Indicator propinquus Friedmann, Journ. Washington Acad. Sci., **33**, 1943, p. 250. (Donenkeng, Bafia, Cameroons.)

Known only from the unique type.

Indicator minor senegalensis Neumann

Indicator minor senegalensis Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 43. (Thiès, near Dakar, Senegal.)

Senegal and perhaps the French Sudan.

Indicator minor alexanderi C. Grant

Indicator minor alexanderi C. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 99. (Gambaga, Gold Coast Hinterland.)

Northern Territories of Gold Coast Colony and Northern Nigeria, probably through the Shari River district to Darfur.

Indicator minor riggenbachi Zedlitz

Indicator minor riggenbachi Zedlitz, Journ. f. Orn., **63**, 1915, p. 12. (Tibati, Adamawa highlands.)

Western Cameroons to the Uelle and Lado districts.

Indicator minor diadematus Rüppell

Indicator diadematus Rüppell, Neue Wirbelth., Vög., 1837, p. 61. (Forested parts of Ethiopia.)

Indicator lovati Ogilvie-Grant, Bull. Brit. Orn. Cl., **10**, 1900, p. xxxix. (Gelongol, Ethiopia.)

Eastern Sudan, Ethiopia and Somaliland.

Indicator minor erlangeri Zedlitz

Indicator exilis erlangeri Zedlitz, Orn. Monatsb., **21**, 1913, p. 59. (Afgoi, southern Somaliland.)

Southern Italian Somaliland and the eastern districts of Kenya Colony.

Indicator minor teitensis Neumann

Indicator minor teitensis Neumann, Journ. f. Orn., **48**, 1900, p. 195. (Teita, Kenya Colony.)

Uganda and Kenya Colony (except coastal districts), south to Nyasaland.

Indicator minor minor Stephens

Indicator minor Stephens, in Shaw's Gen. Zool., **9**, pt. 1, 1815, p. 140. (Cape of Good Hope = Zwartkop River, Uitenhage Division, Cape Province, *fide* Grant and Praed, *antea*, p. 144.)

Northern Angola, the Manyema district and the eastern base of Mt. Ruwenzori, south to Natal and Cape Province (excluding Damaraland and Transvaal).

Indicator minor albigularis (Roberts)

Melignothes Minor Albigularis Roberts, Ann. Transvaal Mus., **8**, 1922, p. 220. (Woodbush, Transvaal.)

Transvaal.

Indicator minor damarensis (Roberts)

Melignothes minor damarensis Roberts, Ann. Transvaal Mus., **12**, 1928, p. 308. (Quickborn, Southwest Africa.)

Damaraland; requires confirmation.

Indicator conirostris ussheri Sharpe

Indicator ussheri Sharpe, Bull. Brit. Orn. Cl., **12**, 1902, p. 80. (Fanti, Gold Coast.)

Known only from the type locality.

Indicator conirostris conirostris (Cassin)

Melignothes conirostris Cassin, Proc. Acad. Nat. Sci. Philadelphia, **8**, 1856, p. 156. (Moonda River, Gaboon.)

Northern Nigeria, western Cameroons and Gaboon, east to Mt. Elgon, Kavirondo and Ruwenzori.

Indicator variegatus jubaensis Neumann

Indicator variegatus jubaensis Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 97. (Jonte, near Kismayu, Italian Somaliland.)

Southern Somaliland to the Usambara region, Tanganyika Territory.

Indicator variegatus variegatus Lesson

Indicator variegatus Lesson, Traité d'Orn., livr. 2, 1830, p. 155. (Africa.)

Southern Ethiopia, interior of Kenya Colony, Uganda, southeastern Congo and Angola, to Cape Province.

Indicator maculatus maculatus G. R. Gray

Indicator maculatus G. R. Gray, Gen. Bds., **2**, 1847, p. [451], pl. CXIII. (No locality; the type in the British Museum is from Gambia.)

Indicator feae Salvadori, Ann. Mus. Civ. Genova, **40**, 1901, p. 783. (Farim and Rio Cassine, Portuguese Guinea.)

Gambia to Liberia and Sierra Leone, perhaps to the Gold Coast.

Indicator maculatus stictithorax Reichenow

Indicator stictithorax Reichenow, Journ. f. Orn., **25**, 1877, p. 110. (Cameroons.)

Indicator theresæ B. Alexander, Bull. Brit. Orn. Cl., **21**, 1908, p. 90. (Gudima, Iri River, [Mombattu Country].)

Cameroons and Gaboon, eastward through the heavy forests of Lower Guinea to the upper Kibali River and the eastern edge of the Ituri forest near the Semliki.

Indicator archipelagus Temminck

Indicator archipelagus Temminck, Pl. col., livr. 91, 1832, pl. 542, f.1. (Pontianak, Borneo.)

Indicator archipelagus inornatus Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 97. (Klang, Selangor.)

Southwestern Siam (one record), Malay Peninsula, Sumatra, Borneo.

Indicator indicator (Sparrman) [1]

Cuculus indicator Sparrman, Phil. Trans., **67**, 1777, p. 43, pl. 1. (Great Fish River, near Somerset East, Cape Province.)

The greater part of Africa from Senegal, Darfur and Eritrea, south to Cape Province; absent from the West African lowland forests and the East African mountain forests.

Indicator xanthonotus Blyth

Indicator xanthonotus Blyth, Journ. As. Soc. Bengal, **11**, pt. 1, 1842, p. 116. (Darjeeling.)

The Himalayas from the Afghan border to eastern Assam.

Genus **MELICHNEUTES** Reichenow

Melichneutes Reichenow, Orn. Monatsb., **18**, 1910, p. 160. Type, by monotypy, *Melichneutes sommerfeldi* Reichenow = *Melignomon robustus* Bates.

Cerioclepteſ Chapin, Bull. Am. Mus. Nat. Hist., **34**, 1915, p. 512, 513, f. 1. Type, by monotypy, *Cerioclepteſ xenurus* Chapin = *Melignomon robustus* Bates.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 418–420. Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 553–556.

Melichneutes robustus (Bates)

Melignomon robustus Bates, Bull. Brit. Orn. Cl., **25**, 1909, p. 26. (Bitye, River Ja, Cameroons.)

Melichneutes sommerfeldi Reichenow, Orn. Monatsb., **18**, 1910, p. 160. (Dume region, Cameroons.)

Cerioclepteſ xenurus Chapin, Bull. Am. Mus. Nat. Hist., **34**, 1915, p. 512, 513, f. 1. (Avakubi, Ituri district, Belgian Congo.)

Lowland forests of Cameroons eastward across the Congo to the upper Ituri.

[1] No subspecies are recognizable, *cf.* C. Grant, Ibis, 1915, p. 430-431.

Superfamily RAMPHASTOIDEA

Family RAMPHASTIDAE

Genus AULACORHYNCHUS Gould [1]

Aulacorhynchus Gould, Proc. Zool. Soc. London, pt. 2, 1834 (1835), p. 147. Type, by subsequent designation, *A. sulcatus* (Swains.) = *Pteroglossus sulcatus* Swainson. (G. R. Gray, List Gen. Bds., 1840, p. 50).

cf. Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 334–335; **55**, 1926, p. 350–351.

Dickey and van Rossem, Ibis, 1930, p. 48–55.

Germiny, Ois. et Rev. Franç. d'Orn., **11**, 1930, p. 593–604 (p. 46–55 of separately paged reprint).

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 351–358.

Aulacorhynchus sulcatus sulcatus (Swainson)

Pteroglossus sulcatus Swainson, Quart. Journ. Sci., Lit. and Arts, **9**, 1820, p. 267. (Venezuela.)

Coastal mountains of Venezuela (Cumbre de Valencia, Silla de Caracas, Cerro del Avila).

Aulacorhynchus sulcatus erythrognathus (Gould)

Aulacorhamphus erythrognathus Gould, Ann. and Mag. Nat. Hist. (4), **14**, 1874, p. 184. (Caripe, Venezuela.)

Northeastern Venezuela in the Andes south of Cumaná in State of Sucre.

Aulacorhynchus calorhynchus (Gould)

Aulacorhamphus calorhynchus Gould, Ann. and Mag. Nat. Hist. (4), **14**, 1874, p. 183. (Mérida, Venezuela.)

Santa Marta Mts., Colombia; Sierra de Perijá and Andes of Mérida, Venezuela.

Aulacorhynchus derbianus derbianus Gould

Aulacorhynchus Derbianus Gould, Proc. Zool. Soc. London, pt. 3, 1835, p. 49. (No locality.)

Pteroglossus Derbianus Gould, Monogr. Ramphastidae, pt. 3, 1835, pl. 32. ("Cordillerian Andes"; I designate Province of Húanuco, Perú.)

Eastern Ecuador, Eastern Perú and northeastern Bolivia.

[1] Replaces *Aulacorhamphus* (emendation) G. R. Gray, 1840, of Sharpe's Hand-list.

Aulacorhynchus derbianus duidae Chapman

Aulacorhynchus derbianus duidæ Chapman, Am. Mus. Novit., no. 380, 1929, p. 16. (Aguita, 3250 feet, Mt. Duida, Venezuela.)

Confined to Mt. Duida, Venezuela.

Aulacorhynchus derbianus whitelianus (Salvin and Godman)

Aulacorhamphus whitelianus Salvin and Godman, Ibis, 1882, p. 83. (Merumé Mts., British Guiana.)

Venezuela on Mt. Auyan-tepui and Mt. Roraima; Merumé Mts., Kanuku Mts. and Quonga, British Guiana.

Aulacorhynchus derbianus osgoodi Blake

Aulacorhynchus derbianus osgoodi Blake, Field Mus. Nat. Hist., Zool. Ser., **24**, 1941, p. 228. (Boundary Camp, 2000 feet, head of Itabu Creek, Acary Mts., British Guiana.)

Acary Mts., British Guiana.

Aulacorhynchus prasinus wagleri (Sturm)

Pteroglossus wagleri Sturm, Monogr. Ramphastidae, 1841, pl. 16. (No locality = México.)

Southwestern México in mts. of Guerrero and western Oaxaca.

Aulacorhynchus prasinus prasinus (Gould)

Pteroglossus prasinus Licht. Gould, Proc. Zool. Soc. London, pt. 2, 1834, p. 78. (México = Valle Real *fide* Hellmayr, Nov. Zool., **20**, 1913, p. 255.)

Southeastern México in State of Veracruz and adjacent parts of San Luís Potosí, Hidalgo and Oaxaca.

Aulacorhynchus prasinus stenorhabdus Dickey and van Rossem

Aulacorhynchus prasinus stenorhabdus Dickey and van Rossem, Ibis, 1930, p. 52. (Cerros Los Naranjos, 5000 feet, Volcán Santa Ana, Dept. Sonsonate, El Salvador.)

Aulacorhynchus prasinus chiapensis Brodkorb, Auk, **57**, 1940, p. 546. (Mt. Ovando, 1900 metres, Chiapas.)

Subtropical zone of the Sierra Madre in Chiapas, western Guatemala and northern El Salvador.

Aulacorhynchus prasinus virescens Ridgway

Aulacorhynchus prasinus virescens Ridgway, Proc. Biol. Soc. Washington, **25**, 1912, p. 88. (Chasniguas, Honduras.)

Northern Guatemala, Quintana Roo, British Honduras, Honduras and northern Nicaragua.

Aulacorhynchus prasinus volcanius Dickey and van Rossem

Aulacorhynchus prasinus volcanius Dickey and van Rossem, Ibis, 1930, p. 50, f. 1b, p. 53. (Volcán San Miguel, 3000 feet, Dept. San Miguel, El Salvador.)

Confined to Volcán San Miguel between 2500 and 4000 feet, El Salvador.

Aulacorhynchus prasinus maxillaris Griscom

Aulacorhynchus cæruleogularis maxillaris Griscom, Am. Mus. Novit., no. 141, 1924, p. 2. (Guayabo, Costa Rica.)

Highlands of Costa Rica and western Chiriquí.

Aulacorhynchus prasinus caeruleogularis (Gould)

Aulacorhamphus cæruleogularis Gould, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 45. (Veragua; restricted to Cerro Flores, eastern Chiriquí, by Griscom, Am. Mus. Novit., no. 141, 1924, p. 2.)

Highlands of eastern Chiriquí and Veraguas.

Aulacorhynchus prasinus cognatus (Nelson)

Aulacorhamphus cæruleigularis cognatus Nelson, Smiths. Misc. Coll., **60**, 1912, no. 3, p. 4. (Mt. Pirri, 5000 feet, Darién.)

Mountains of eastern Darién.

Aulacorhynchus prasinus griseigularis (Chapman)

Aulocorhynchus [sic] *albivitta griseigularis* Chapman, Bull. Am. Mus. Nat. Hist., **34**, 1915, p. 639. (Santa Elena, 9000 feet, Central Andes, Colombia.)

Colombia: subtropical to temperate zone at the northern end of the Western Andes and the western slope of the Central Andes.

Aulacorhynchus prasinus phaeolaemus (Gould)

Aulacorhamphus phaeolæmus Gould, Ann. and Mag. Nat. Hist. (4), **14**, 1874, p. 184. (Concordia in Colombia and Mérida in Venezuela; Western Andes, Colombia fixed by Hellmayr, Proc. Zool. Soc. London, 1911, p. 1213, note.)

Aulacorhamphus petax Bangs, Proc. Biol. Soc. Washington, **21**, 1908, p. 158. (San Antonio, 5800 feet, Río Cali, Colombia.)

Colombia: subtropical zone of the Western Andes, except at the northern end.

Aulacorhynchus prasinus lautus (Bangs)

Aulacorhamphus lautus Bangs, Proc. Biol. Soc. Washington, **12**, 1898, p. 173. (San Miguel, 7500 feet, Santa Marta Mts., Colombia.)

Colombia: subtropical zone of the Santa Marta Mts.

Aulacorhynchus prasinus albivitta (Boissonneau)

Pteroglossus albivitta Boissonneau, Rev. Zool., 1840, p. 70. (Bogotá.)

Subtropical zone of the eastern slope of the Central Andes and both slopes of the Eastern Andes of Colombia; Andes of eastern Ecuador (except southeastern); Andes of Mérida, Venezuela.

Aulacorhynchus prasinus cyanolaemus (Gould)

Aulacorhamphus cyanolæmus Gould, Proc. Zool. Soc. London, 1866, p. 24. (Loxa [*i.e.* Loja], Ecuador.)

Subtropical zone of the Andes of southeastern Ecuador and northern Perú.

Aulacorhynchus prasinus dimidiatus (Ridgway)

Aulacorhamphus dimidiatus Ridgway, Proc. U. S. Nat. Mus., **9**, 1886, p. 93. (Locality unknown.) [1]

Probably inhabits northern Perú in Dept. of Huánuco.

Aulacorhynchus prasinus atrogularis (Sturm)

Pteroglossus atrogularis Sturm, Monogr. Ramphastidae, 1841, Heft 2, pl. 2 and text. (Andes of Perú; Chanchamayo, central Perú, designated by Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, 1919, p. 380, note a.)

Eastern slopes of the Peruvian Andes in depts. of Ayacucho, Puno and Junín.

Aulacorhynchus haematopygus sexnotatus (Gould)

Aulacorhamphus sexnotatus Gould, Proc. Zool. Soc. London, 1868, p. 219. (Peru?)

Subtropical zone of southwestern Colombia (Nariño); Andes of western Ecuador.

Aulacorhynchus haematopygus haematopygus (Gould)

Pteroglossus hæmatopygus Gould, Proc. Zool. Soc. London, pt. 2, 1834 (1835), p. 147. (No locality given; Concordia, Antioquia, Colombia, designated by Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, 1919, p. 378, note d.)

Subtropical zone of the Western, Central and Eastern Andes of Colombia and Sierra de Perijá in extreme western Venezuela.

[1] The types were found attached to an Indian bead belt from an unknown locality. The describer judged that they came from some part of the upper Orinoco region in Venezuela or from the upper Rio Negro region of Brazil, but it has been shown by Hellmayr (Arch. Naturg., **85**, Abth. A, 1920, Heft 10, p. 125) that such is not the case.

Aulacorhynchus coerulei-cinctis d'Orbigny

Aulacorhynchus cœrulei-cinctis d'Orbigny, Voy. Am. Mérid., Ois., livr. 51, 1840, pl. 66, f. 2. (No locality.)

Pteroglossus (Aulacoramphus) coeruleo-cinctus Tschudi, Arch. Naturg., **10**, 1844, Bd. 1, p. 302. (No locality, *ex* d'Orbigny, pl. 66, f. 2.)

Aulacorhynchus cœruleo-cinctus d'Orbigny, Voy. Am. Mérid., Ois., livr., 89, 1847, p. 382. (Yancaché, Chupe and Irupana, Province of Yungas, Bolivia.)

Aulacorhynchus caeruleicinctus borealis Carriker, Proc. Acad. Nat. Sci. Philadelphia, **85**, 1933, p. 5. (Huacapistána, 7000 feet, Dept. Junín, Perú.)

Subtropical zone of Perú and Bolivia.

Aulacorhynchus huallagae Carriker

Aulacorhynchus huallagae Carriker, Proc. Acad. Nat. Sci. Philadelphia, **85**, 1933, p. 5. (Utcubamba, 6000 feet, Dept. Libertád, Perú.)

Known only from the type, taken on the trail to Utcubamba in the Huallaga Valley east of Tayabamba, Perú.

Genus **PTEROGLOSSUS** Illiger

Pteroglossus Illiger, Prodromus, 1811, p. 202. Type, by subsequent designation, *Ramphastos aracari* Linné. (G. R. Gray, List Gen. Bds., 1840, p. 50.)

cf. Griscom and Greenway, Bull. Mus. Comp. Zoöl., **88**, 1941, p. 196–198.

Hellmayr, Nov. Zool., **18**, 1910, p. 397–400.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 328–333.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 340–348.

Subgenus **PTEROGLOSSUS** Illiger

Pteroglossus torquatus torquatus (Gmelin)

Ramphastos torquatus Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 354. (México; restricted to Veracruz by Brodkorb, *infra.*)

Pteroglossus torquatus esperanzae Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 401, 1939, p. 6. (Finca Esperanza, 145 metres, Chiapas.)

Tropical zone from Veracruz and Oaxaca southward (except region occupied by the next race) through Central America to the Canal Zone (except region inhabited by *P. t. frantzii*).

Pteroglossus torquatus erythrozonus Ridgway

Pteroglossus torquatus erythrozonus Ridgway, Proc. Biol. Soc. Washington, **25**, 1912, p. 88. (Temax, Yucatán.)

Southeastern México in states of Campeche, Yucatán and Quintana Roo; northern Guatemala in Dept. of Petén; British Honduras.

Pteroglossus torquatus frantzii Cabanis

Pteroglossus Frantzii Cabanis, Sitzungsb. Nat. Ges. Freunde Berlin, Nov., 1861. (Costa Rica, type from Aguacate.)

Tropical zone of the Pacific slope of Costa Rica south of the Gulf of Nicoya, and adjacent parts of western Panamá.

Pteroglossus torquatus nuchalis Cabanis

Pteroglossus nuchalis Cabanis, Journ. f. Orn., **10**, 1862, p. 332. (Puerto Cabello, Venezuela.)

Tropical zone of northern Colombia in the lower Cauca and Magdalena valleys and the Santa Marta region; coast region of northern Venezuela.

Pteroglossus torquatus pectoralis Todd

Pteroglossus torquatus pectoralis Todd, Proc. Biol. Soc. Washington, **56**, 1943, p. 160. (Santa Elena, Zulia, Venezuela.)

Maracaibo basin, Venezuela.

Pteroglossus sanguineus Gould

Pteroglossus sanguineus Gould, Monogr. Rhamphastidae, ed. 2, 1854, pl. 21, upper fig. and text, part. (No locality given; San José, western Colombia suggested by Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 333.)

The entire tropical west coast of Colombia and northwestern Ecuador.

Pteroglossus erythropygius Gould

Pteroglossus erythropygius Gould, Proc. Zool. Soc. London, pt. 11, 1843, p. 15. (No locality = Realejo, Central America, *ex* Gould, Zool. Voy. 'Sulphur', Bds, 1844, p. 46; error = Ecuador.)

Western Ecuador from the Chandron Valley to Esmeraldas.

Pteroglossus castanotis castanotis Gould

Pteroglossus castanotis Gould, Proc. Zool. Soc. London, pt. 1, 1833 (1834), p. 119. (Brazil, restricted to the Rio Solimões by Hellmayr.)

Eastern Colombia, eastern Ecuador and northeastern Perú, east to the Rio Negro and the north bank of the Solimões.

Pteroglossus castanotis australis Cassin

Pteroglossus castanotis b, *australis* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1867, p. 112. (Río Paraná.)

Pteroglossus attalorhynchus M. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 29. (Salto Guiaré, Puerto Bertoni and Río Mondaih, Paraguay.)

Eastern Bolivia; western Brazil from the Juruá south and east in states of Mato Grosso, Goiáz, Minas Gerais, São Paulo and Paraná; Paraguay; northeastern Argentina in Territory of Misiones.

Pteroglossus aracari roraimae Brabourne and Chubb

Pteroglossus roraimæ Brabourne and Chubb, Ann. and Mag. Nat. Hist. (8), **10**, 1912, p. 261. (British Guiana.)

Southern and eastern Venezuela, British Guiana and Surinam.

Pteroglossus aracari atricollis (P. L. S. Müller)

Ramphastos atricollis P. L. S. Müller, Natursyst., Suppl., 1776, p. 83. (Brazil; error = Cayenne by substitution of Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 102.)

Pteroglossus aracari amazonicus Pinto, Rev. Mus. Paulista, **19**, 1935, p. 157. (Northern Brazil.)

Cayenne; Brazil north of the Amazon west at least to Obidos.

Pteroglossus aracari aracari (Linné)

Ramphastos Aracari Linné, Syst. Nat., ed. 10, **1**, 1758, p. 104. ("America meridionali" = Brazil.)

Pteroglossus wiedii Sturm, Monogr. Ramphastidae, pt. 4, 1847. (Southern Brazil; Rio de Janeiro designated as type locality by Pinto, 1938, p. 329.)

Amazonian Brazil south of the Amazon, west to the Rio Madeira and southward in the coastal states to Espirito Santo and probably Rio de Janeiro.

Pteroglossus aracari vergens Griscom and Greenway

Pteroglossus aracari vergens Griscom and Greenway, Bull. Mus. Comp. Zoöl., **81**, 1937, p. 431. (Valparaiso, São Paulo.)

Brazil in states of Minas Gerais and São Paulo; this is probably the race occuring in Paraná and Santa Catarina.

Pteroglossus pluricinctus Gould

Pteroglossus pluricinctus Gould, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 157. (Brazil; restricted to the Rio Solimões by Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 101.)

Tropical zone from the llanos de Meta, eastern Colombia to

eastern Ecuador and eastern Perú and eastward to the upper Orinoco, Mt. Duida and the upper Rio Negro.

Pteroglossus viridis humboldti Wagler

Pteroglossus Humboldti Wagler, Syst. Av., 1827, Pteroglossus, sp. 4. (Brazil.)

Southeastern Colombia, eastern Ecuador, northeastern Perú and adjacent parts of western Brazil east to the Rio Solimões and the Rio Madeira, and northern Bolivia.

Pteroglossus viridis didymus Sclater

Pteroglossus didymus Sclater, Proc. Zool. Soc. London, 1890, p. 403. (Upper Amazonia.) Col. pl., Cat. Bds. Brit. Mus., 19, pl. 6.

Range not known.[1]

Pteroglossus viridis viridis (Linné)

Ramphastos viridis Linné, Syst. Nat., ed. 12, 1, 1766, p. 150. (Cayenne.)

Eastern Venezuela, the Guianas, and Brazil north of the Amazon east to Obidos.

Pteroglossus viridis inscriptus Swainson

Pteroglossus inscriptus Swainson, Zool. Illustr., 2, 1822, pl. 90 and text. (Interior of Guiana; error = Pará, by designation of Hellmayr, Nov. Zool., 17, 1910, p. 399.)

Amazonian Brazil south of the Amazon from the Guaporé and the Madeira to Pará, extending eastward to Maranhão and Pernambuco and south to northwestern Mato Grosso.

Pteroglossus bitorquatus sturmii Natterer

Pteroglossus sturmii Natterer in Sturm's Monogr. Ramphastidae, 3, 1842, p. 3, pl. 7. (Borba, Brazil.)

Right bank of the Rio Madeira from Borba to Calama and the Rio Gy-Paraná, extending into northwestern Mato Grosso.

Pteroglossus bitorquatus reichenowi E. Snethlage

Pteroglossus reichenowi E. Snethlage, Orn. Monatsb., 15, 1907, p. 195. (Monte Alegre, lower Amazon.)

South bank of the lower Amazon between the Tapajóz and the Tocantins.

[1] Known only from the unique type in the British Museum; *P. didymus* is almost certainly a race of *P. viridis* from which it is said to differ in having brown tibiae and a black streak on the culmen.

Pteroglossus bitorquatus bitorquatus Vigors

Pteroglossus bitorquatus Vigors, Zool. Journ., 2, 1826, p. 481. (No locality = northeastern Brazil.)

South bank of the lower Amazon east of the Tocantins, and adjacent parts of northern Maranhão.

Pteroglossus olallae Gyldenstolpe

Pteroglossus olallae Gyldenstolpe, Ark. Zool., 33B, 1942, no. 12, p. 8. (João Pessôa, Rio Juruá, Brazil.)

Known only from the unique type, taken on the left bank of the upper Rio Juruá, Amazonas, Brazil.

Pteroglossus flavirostris flavirostris [1] Fraser

Pteroglossus flavirostris Fraser, Proc. Zool. Soc. London, pt. 8, 1840 (1841), p. 61. (New name for the species figured as *Pteroglossus azarae* in Gould's Monogr. Ramphastidae, Rio Negro on the Amazon; = Rio Solimões, Brazil, substituted by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 101.)

Amazonian Colombia and eastern Ecuador eastward to southern Venezuela (Río Caura, Mt. Duida) and northwestern Brazil (upper Rio Negro region and the upper Rio Solimões); Cayenne (?).

Pteroglossus flavirostris azara (Vieillot)

Ramphastos Azara Vieillot, Nouv. Dict. Hist. Nat., 34, 1819, p. 282. (Brazil.)

Western Brazil between the lower Rio Negro and the north bank of the Solimões.

Pteroglossus mariae Gould

Pteroglossus mariæ Gould, Monogr. Ramphastidae, ed. 2, 1854, pl. 30 and text. (Lower Amazon; "Peruvian Amazons" substituted by Hellmayr, Nov. Zool., 14, 1907, p. 83.)

Northeastern Perú, and western Brazil east to the Purús, chiefly south of the Solimões; northern Bolivia (Puerto Salinas, Río Chapare).

Subgenus **BEAUHARNAISIUS** Bonaparte

Beauharnaisius Bonaparte, Consp. Av., 1, 1850, p. 95. Type, by tautonymy, *Pteroglossus beauharnaesii* Wagler.

Pteroglossus beauharnaesii Wagler

Pteroglossus Beauharnaesii Wagler, Isis von Oken, 1832, col. 280. (State of Pará, Brazil; upper Amazonian region of

[1] *P. flavirostris, P. azara* and *P. mariae* probably constitute a single specific entity, but see Todd, Proc. Biol. Soc. Washington, 56, 1943, p. 161-162.

eastern Perú substituted by Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 373, note a.)

Amazonian Perú, western Brazil east to the Rio Madeira, and northern Bolivia.

Genus SELENIDERA Gould

Selenidera Gould, Icon. Av., pt. 1, 1837, pl. [7] and text. Type, by subsequent designation, *S. Gouldii* (Natt.) = *Pteroglossus gouldii* Natterer (G. R. Gray, List Gen. Bds., 1840, p. 50.)

cf. Germiny, Ois. et Rev. Franç. d'Orn., 11, 1930, p. 589–593 (p. 41–45 of separately paged reprint).

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 348–351.

Selenidera spectabilis Cassin

Selenidera spectabilis Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1857, p. 214. (Cucuyos de Veragua, Panamá.)

Caribbean slope of Central America from Honduras to Darién; northwestern Colombia, and the lower Cauca Valley.

Selenidera culik (Wagler)

Pteroglossus Culik Wagler, Syst. Av., 1827, Pteroglossus, sp. 10. (Cayenne.) [1]

The Guianas, and northern Brazil north of the Amazon from the Rio Negro to Obidos.

Selenidera reinwardtii (Wagler)

Pteroglossus Reinwardtii Wagler, Syst. Av., 1827, Pteroglossus, sp. 11. (Brazil.)

Amazonian Colombia, eastern Ecuador, and northeastern Perú on the Río Ucayali and in the Moyobamba-Yurimaguas region.

Selenidera langsdorffii (Wagler)

Pteroglossus Langsdorffi Wagler, Syst. Av., 1827, Pteroglossus, sp. 12. (Brazil, restricted to Tefé, Rio Solimões, by Gyldenstolpe, K. Svenska Vet. Akad. Handl., 22, 1945, no. 3, p. 116.)

Eastern Perú from the lower Ucayali and the Moyobamba-Yurimaguas region [2] south to the Río Comberciato and eastward into western Brazil to the Solimões (Tefé) and probably the Purús.

[1] Replaces *Ramphastos piperivorus* Linné, not identifiable.

[2] Were it not for the fact that both *S. reinwardtii* and *S. langsdorffii* are recorded from the same region in northeastern Perú they would be considered conspecific; indeed it seems highly probable that they are conspecific and that the apparent overlap may be due to intermingling of populations during the non-breeding season.

Selenidera nattereri (Gould)

Pteroglossus Nattereri Gould, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 157. (Brazil.)

Eastern Venezuela (Caura River); northwestern Brazil (upper Rio Negro, Rio Uaupés, Rio Solimões (Tonantins)); recorded by Gould from the Rio Madeira and specimens listed from British Guiana and Cayenne in Cat. Bds. Brit. Mus., **19**, p. 152; also attributed to Surinam.

Selenidera maculirostris hellmayri Griscom and Greenway

Selenidera maculirostris hellmayri Griscom and Greenway, Bull. Mus. Comp. Zoöl., **81**, 1937, p. 431. (Boim, Rio Tapajóz, Brazil.)

Amazonian Brazil south of the Amazon from the lower Rio Madeira to the left bank of the Tapajóz.

Selenidera maculirostris gouldii (Natterer)

Pteroglossus Gouldii Natterer, Proc. Zool. Soc. London, pt. 5, 1837, p. 44. (Pará.)

Northeastern Brazil south of the Amazon from the right bank of the Tapajóz east to the Capim.

Selenidera maculirostris maculirostris (Lichtenstein)

Pteroglossus maculirostris Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 7. (Brazil.)

Southeastern Brazil in states of Baía, Espirito Santo, Rio de Janeiro, Minas Gerais, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul.

Genus **ANDIGENA** Gould

Andigena Gould, Proc. Zool. Soc. London, pt. 18, 1850 (1851), p. 93. Type, by subsequent designation, *Pteroglossus hypoglaucus* Gould. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 85.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 330–332; **55**, 1926, p. 85, f. 12; p. 347–348.

Germiny, Ois. et Rev. Franç. d'Orn., **11**, 1930, p. 473–480 (p. 19–26 of reprint).

Subgenus **BAILLONIUS** Cassin

Baillonius Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1867, p. 114. Type, by monotypy and virtual tautonymy, *Ramphastos bailloni* Vieillot.

Andigena bailloni (Vieillot)

Ramphastos Bailloni Vieillot, Nouv. Dict. Hist. Nat., **34**, 1819, p. 283. (No locality = Brazil *ex* LeVaillant, Hist. Nat. Toucans, no. 18.)

Southeastern Brazil in states of Espirito Santo, Rio de Janeiro, São Paulo, Paraná and Santa Catarina.

Subgenus **ANDIGENA** Gould

Andigena laminirostris Gould

Andigena laminirostris Gould, Proc. Zool. Soc. London, pt. 18, 1850 (1851), p. 93. (Quito, Ecuador.)

Subtropical and temperate zones of southwestern Colombia and western Ecuador south to the Río Chanchan.

Andigena hypoglauca hypoglauca (Gould)

Pteroglossus hypoglaucus Gould, Proc. Zool. Soc. London, pt. 1, 1833, p. 70. (No locality; Colombia designated by Brabourne and Chubb, Bds. So. Am., **1**, 1912, p. 157.)

Humid temperate zone of the Central Andes of Colombia.

Andigena hypoglauca lateralis Chapman

Andigena hypoglaucus lateralis Chapman, Am. Mus. Novit., no. 96, 1923, p. 5. (Rumicruz, 9700 feet, Junín, Perú.)

Humid temperate zone of eastern Ecuador and eastern Perú.

Andigena cucullata (Gould)

Pteroglossus cucullatus Gould, Proc. Zool. Soc. London, pt. 14, 1846, p. 69. (Forests of Cocapata, Cochabamba, Bolivia.)

Humid temperate zone of the Andes of Perú (Chachapoyas, Tamiapampa, Pumamarca) and Bolivia (Tilotilo, forests of Cocapata, Incachaca, San Cristóbal).

Andigena nigrirostris occidentalis Chapman

Andigena nigrirostris occidentalis Chapman, Bull. Am. Mus. Nat. Hist., **34**, 1915, p. 385. (San Antonio, 6600 feet, Western Andes above Cali, Colombia.)

Subtropical zone of the Western Andes of Colombia.

Andigena nigrirostris spilorhynchus Gould

Andigena spilorhynchus Gould, Proc. Zool. Soc. London, pt. 26, 1858, p. 149. ("Forest of Beza, on the eastern side of the Cordillera in Ecuador.")

Subtropical and temperate zones of the Central Andes of Colombia and northeastern Ecuador.

Andigena nigrirostris nigrirostris (Waterhouse)

Pteroglossus nigrirostris Waterhouse, Proc. Zool. Soc. London, pt. 7, 1839, p. 111. (No locality; Subia, near La Mesa, Colombia, designated by Chapman, *antea,* 1917, p. 331.)

Subtropical zone of the Eastern Andes of Colombia.

Genus **RAMPHASTOS** Linné

Ramphastos Linné, Syst. Nat., ed. 10, **1**, 1758, p. 103. Type, by subsequent designation, *Ramphastos erythrorhynchus* Gmelin = *Ramphastos tucanus* Linné (Vigors, Zool. Journ., **2**, 1826, p. 471.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., **34**, 1917, p. 328–330; **55**, 1926, p. 344–347.

Griscom and Greenway, Bull. Mus. Comp. Zoöl., **81**, 1937, p. 427–430.

Gyldenstolpe, K. Svenska Vet.-Akad. Handl., (3), **22**, 1945, no. 3, p. 112–114; **23**, 1945, no. 1, p. 123–125.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 324–328.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 330–340.

Todd, Proc. Biol. Soc. Washington, **56**, 1943, p. 153–160.

Ramphastos vitellinus culminatus Gould

Rhamphastos culminatus Gould, Proc. Zool. Soc. London, pt. 1, 1833, p. 70. (México, error = Rio Solimões, Brazil, by designation of Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 101.)

Upper Amazonia east of eastern base of the Andes from Colombia to Bolivia and eastward to southern Venezuela, the Rio Madeira and western Mato Grosso.

Ramphastos vitellinus vitellinus Lichtenstein

Ramphastos vitellinus Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 7. (Cayenne.)

Island of Trinidad; Venezuela (except southern), the Guianas, and Brazil north of the Amazon and east of the Rio Negro.

Ramphastos vitellinus ariel Vigors

Ramphastos ariel Vigors, Zool. Journ., **2**, 1826, p. 466. (Rio de Janeiro.)

Brazil south of the Amazon from the Rio Tapajóz to Pernambuco (not recorded from Ceará and Piauí and replaced by allied forms on the upper Parnaiba and in Goiáz), thence extending

southward through Baía, Minas Gerais, Espirito Santo, Rio de Janeiro and São Paulo to Santa Catarina.

NOTE. *Ramphastos osculans* Gould, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 156. (Brazil, restricted to the upper Rio Negro by Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 100) and *Ramphastos osculans berliozi* Germiny, Ois., **11**, 1930, p. 470. (Rio Negro, Brazil), represent an unstable population occurring where the ranges of *culminatus, vitellinus* and *ariel* adjoin; *cf.* Hellmayr, Ois. et. Rev. Franç. d'Orn. (n.s.), **3**, 1933, p. 244–251.

Ramphastos vitellinus pintoi Peters

Rhamphastos [sic] *vitellinus pintoi* Peters, Proc. New England Zoöl. Cl., **23**, 1945, p. 79. (Jaragua, Rio das Almas, Goiáz, Brazil.)

Southern Goiáz (Catalao, Jaragua, Inhumas) and western São Paulo (Itapura).

Ramphastos vitellinus theresae Reiser

Ramphastos theresae Reiser, Anz. K. Akad. Wiss. Wien, Math.-Naturwiss. Kl., **42**, 1905, p. 322. (Rio Parnaiba, Piauí, Brazil.)

The upper Parnaiba in Piauí and Maranhão.

Ramphastos dicolorus Linné

Ramphastos dicolorus Linné, Syst. Nat., ed. 12, **1**, 1766, p. 152. (Cayenne, error = southeastern Brazil.)

Southeastern Brazil in states of Goiáz, Minas Gerais, Espirito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina.

Ramphastos citreolaemus Gould

Ramphastos citreolæmus Gould, Proc. Zool. Soc. London, pt. 11, 1843 (1844), p. 147. (Bogotá, Colombia.)

Colombia in the Magdalena and lower Cauca valleys; recorded from the Maracaibo basin in Venezuela.

Ramphastos sulfuratus sulfuratus Lesson [1]

Ramphastos sulfuratus Lesson, Traité d'Orn., livr. 3, July, 1830, p. 173. (México.)

Ramphastos poecilorhynchus Lichenstein, Preiss-Verzeichn. Säugeth. Vög. Mexico gesam., 1830, p. 1. (México.)

Southeastern México from Puebla, Oaxaca and Veracruz, south to northern Guatemala and British Honduras.

[1] Replaces *Ramphastos piscivorus* Linné, 1766, not identifiable *cf.* Peters, Auk, **48**, 1930, p. 406-407.

Ramphastos sulfuratus brevicarinatus Gould

Ramphastos brevicarinatus Gould, Monogr. Ramphastidae, ed. 2, 1854, pl. 3 and text. (Western side of the Isthmus of Panamá.)

Ramphastos sulfuratus intermedius Carriker and de Schauensee, Proc. Acad. Nat. Sci. Philadelphia, **87**, 1935, p. 427. (Quirigua, Guatemala.)

Central America from southeastern Guatemala to Panamá, across northern Colombia to the Santa Marta region and adjacent parts of Venezuela (Perijá).

Ramphastos swainsonii Gould

Rhamphastos Swainsonii Gould, Proc. Zool. Soc. London, pt. 1, 1833, p. 69. (Mountains of Colombia.)

Southeastern Honduras to western Ecuador, eastward in Colombia to the Magdalena River.

Ramphastos ambiguus brevis de Schauensee

Ramphastos ambiguus brevis de Schauensee, Proc. Acad. Nat. Sci. Philadelphia, **97**, 1945, p. 14. (Río Mechengue, 2500 feet, Cauca, Colombia.)

Pacific Darién through western Colombia west of the Western Andes to western Ecuador.

Ramphastos ambiguus ambiguus Swainson

Ramphastos ambiguus Swainson, Zool. Illustr., **3**, 1823, pl. 168 and text. (No locality = Buenavista, Colombia, by designation of Chapman, Bull. Am. Mus. Nat. Hist., **34**, 1917, p. 328.)

Ramphastos abbreviatus Cabanis, Journ. f. Orn., **10**, 1862, p. 334. (Puerto Cabello, Venezuela.)

Ramphastos innominatus Todd, Proc. Biol. Soc. Washington, **56**, 1943, p. 158. (El Tambor, Santander, Colombia.)

Subtropical zone, Eastern Andes of Colombia, Ecuador and Perú, and at the head of the Magdalena River in Colombia; mountains of northern and western Venezuela.

Ramphastos aurantiirostris Hartert

Ramphastos monilis aurantiirostris Hartert, Nov. Zool., **32**, 1925, p. 143. (Essequibo River, British Guiana.) [1]

Venezuela, British Guiana, Surinam, Cayenne (trade skins).

[1] The specific arrangement of the Toucans of the *aurantiirostris-tucanus-cuvieri-inca* group depends upon the importance attached to bill color. Little is known of the possible changes in the color of this member due to age or season; there is much post-mortem fading and usually no collectors' notes on the color during life. Furthermore there is no information available as to any possible seasonal movements which might account for the presence of two of these "species" at the same locality.

Ramphastos tucanus Linné

Ramphastos Tucanus Linné, Syst. Nat., ed. 10, **1**, 1758, p. 103. (South America, restricted to Surinam by Griscom and Greenway, *antea,* p. 430.)

Ramphastos haematorhynchus Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 99. (La Prición, Caura River, Venezuela.)

Southeastern Venezuela east of the Caura River, the Guianas and northern Brazil, chiefly north of the Amazon and west to Manaus, but extending into Maranhão.

Ramphastos cuvieri cuvieri Wagler

Ramphastos Cuvieri Wagler, Syst. Av., 1827, Ramphastos, sp. 5. (Brazil, on the Amazon; restricted to Borba, Rio Madeira by Griscom and Greenway, *antea,* p. 429.)

Eastern Colombia, eastern Ecuador, eastern Perú and northern Bolivia, eastward to southern Venezuela (upper Orinoco, Mt. Duida), and the Rio Tapajóz.

Ramphastos cuvieri oblitus Griscom and Greenway

Ramphastos tucanus oblitus Griscom and Greenway, Bull. Mus. Comp. Zoöl., **81**, 1937, p. 427. (Tauary, Rio Tapajóz, Brazil.)

Amazonian Brazil from the Tapajóz, eastward to the upper Tocantins.

Ramphastos inca Gould

Ramphastos Inca Gould, Proc. Zool. Soc. London, pt. 14, 1846, p. 68. (Chimorée in the country of the Yuracares Indians, Bolivia.)

Eastern Bolivia.

Ramphastos toco toco P. L. S. Müller

Ramphastos Toco P. L. S. Müller, Natursyst., Suppl., 1776, p. 82. (Cayenne, *ex* Buffon.)

The Guianas, northern and eastern Brazil south to the vicinity of Belém; the Maranhão specimen may be referable here. Identity of the race inhabiting Piauí and Baía not known.

Ramphastos toco albogularis Cabanis

Ramphastos albogularis Cabanis, Journ. f. Orn., **10**, 1862, p. 334. (Southern Brazil.)

Brazil in states of Goiáz, Minas Gerais, São Paulo, Mato Grosso, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northern Argentina in Salta, Tucumán, Chaco and Misiones; Bolivia.[1]

[1] Birds from Bolivia and northwestern Argentina may possibly represent an undescribed race.

Suborder PICI

Family PICIDAE

Subfamily JYNGINAE

Genus JYNX Linné

Jynx Linné, Syst. Nat., ed. 10, 1, 1758, p. 112. Type, by monotypy, *Jynx torquilla* Linné.

cf. C. Grant, Ibis, 1915, p. 470–473.

C. Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., **59**, 1939, p. 72, 113.

Hartert, Vög. pal. Fauna, **2**, Heft 1, 1912, p. 937–941; **3**, Heft 4/5, 1922, p. 2140.

Hartert and Steinbacher, *op. cit.*, Ergänzungsb., Heft 4, 1935, p. 377–378.

Hesse, Mitt. Zool. Mus. Berlin, **6**, 1912, p. 141–145.

Witherby *et al*, Handb. Brit. Bds., **2**, 1938, p. 292–296.

Jynx torquilla torquilla Linné

Jynx Torquilla Linné, Syst. Nat., ed. 10, **1**, 1758, p. 112. (Europe = Sweden *ex* Fn. Sv.)

Iynx torquilla sarudnyi Loudon, Orn. Monatsb., **20**, 1912, p. 44. (Transcaspia.)

Iynx torquilla hyrcana Sarudny, Orn. Mitt., **4**, 1913, p. 141. (Rescht, Gilan.)

Iynx torquilla harterti Poljakov, Orn. Mitt., **6**, 1915, p. 135. (Smeinogorsk dist. and Saissansk, Minussinsk dist. and Krassnoyarsk.)

Breeds in Europe and western Asia from southern England, northern Scandinavia, Finland, Russia and western Siberia, north to lat. 64° N. on the Yenissei and east to Lake Baikal, south to the Pyrennees, the Alps, Yugoslavia, Bulgaria, the Caucasus and Tien Shan. Winters in the Mediterranean region, Africa south to the Equator, and India.

Jynx torquilla tschusii Kleinschmidt

Jynx torquilla tschusii Kleinschmidt, Falco, 1907, p. 103. (Sardinia.)

Resident in Italy and Dalmatia and on Sardinia and Corsica; the resident bird of Spain is probably referable to this race.

Jynx torquilla mauretanica Rothschild

Iynx torquilla mauretanica Rothschild, Bull. Brit. Orn. Cl., **23**, 1909, p. 103. (Algeria; type from Hammam Meskoutine.)

Northern Algeria; perhaps adjacent parts of Morocco and Tunisia.

Jynx torquilla chinensis Hesse

Iynx torquilla chinensis Hesse, Orn. Monatsb., **19**, 1911, p. 181. (China; type from Tsingtau [= Tsingtao, Shantung].)

Jynx torquilla pallidior Rensch, Abh. Ber. Mus. Dresden, **16**, 1924, no. 2, p. 40. (Sungpan, upper Min River, Szechwan.)

Iynx torquilla intermedia Stegmann, Bull. Brit. Orn. Cl., **47**, 1927, p. 73. (Chita, Siberia.)

Jynx torquilla incognita Stachanov, Alauda, **5**, 1933, p. 250. ("Bana Djoutou, ♂ and Tschourschewnj ♀".)

Breeds from the southern end of Lake Baikal, northern Manchuria and the Amur south to northern India, northern Szechwan and the Yangtze Valley. Winters in India, Burma, southern China, Siam and northern Indochina.

Jynx torquilla japonica (Bonaparte)

Yunx japonica Bonaparte, Consp. Av., **1**, 1850, p. 112. (Japan.)

Jynx torquilla hokkaidi Kuroda, Auk, **38**, 1921, p. 582. (Yubetsu, Prov. Kitami, Hokkaido.)

Breeds on Sakhalin and Hokkaido; winters south to Shikoku and Kyushu.

Jynx ruficollis thorbeckei Reichenow

Iynx thorbeckei Reichenow, Orn. Monatsb., **20**, 1912, p. 126. (Chang, Cameroons.)

Highland savanna country of middle Cameroons.

Jynx ruficollis pulchricollis Hartlaub

Iynx pulchricollis Hartlaub, Ibis, 1884, p. 28, pl. 3. (Babira, east of Bahr el Jebel.)

French middle Congo to southwestern Sudan and northwestern Uganda.

Jynx ruficollis aequatorialis Rüppell

Iynx aequatorialis Rüppell, Mus. Senckenbergianum, **3**, 1842, p. 121. (Southern provinces of Ethiopia.)

Ethiopia.

Jynx ruficollis cosensi C. Grant

Jynx ruficollis cosensi C. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 102. (Amala River, 5400 feet, Kenya Colony.)

Inland portions of Kenya Colony and Tanganyika Territory.

Jynx ruficollis ruficollis Wagler

Jynx ruficollis Wagler, Nat. Syst. Amphibien, 1830, p. 118, note. (Kaffirland = Uitenhage, eastern Cape Province.)

Southern Africa from Landana, the Alima River, the Kivu Volcanos and Nyasaland, south to Cape Province.

Subfamily PICUMNINAE

Genus PICUMNUS Temminck

Picumnus Temminck, Pl. col., livr. 62, 1825, text to pl. 371. Type, by subsequent designation, *Picus minutissimus* (Gm.) Temm., Pl. enl. 786, f. 1 = *Picumnus buffoni* Lafresnaye. (G. R. Gray, List Gen. Bds., 1840, p. 54.)

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 92–95.

Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 356–358; **55**, 1926, p. 370–372.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, no. 2, pt. 2, 1919, p. 501–511.

Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 287–308.

Hartert, Vög. pal. Fauna, **2**, Heft 2, 1912, p. 936–938.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., **12**, 1929, p. 418–421.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 358–365.

Todd, Ann. Carnegie Mus., **30**, 1946, p. 313–317.

Zimmer, Field Mus. Nat. Hist. Publ., Zool. Ser., **17**, 1930, p. 313–315.

Picumnus cinnamomeus cinnamomeus Wagler

Picumnus cinnamomeus Wagler, Isis von Oken, **22**, 1829, col. 646. (Cartagena.)

Arid tropical zone of northern Colombia extending into the coastal region of northwestern Venezuela.

Picumnus cinnamomeus perijanus Zimmer and Phelps

Picumnus cinnamomeus perijanus Zimmer and Phelps, Am. Mus. Novit., no. 1270, 1944 p. 5. (Las Múcuras, 60 meters, Río Palmar, Perijá, Zulia, Venezuela.)

Lowlands of the middle western and eastern shores of Lake Maracaibo, Venezuela.

Picumnus cinnamomeus venezuelensis Cory

Picumnus venezuelensis Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., **1**, 1913, p. 288. (Encontrados, Zulia, Venezuela.)

Humid forests at the southern end of Lake Maracaibo, Venezuela.

Picumnus rufiventris rufiventris (Bonaparte)

Asthenurus rufiventris Bonaparte, Proc. Zool. Soc. London, pt. 5, 1837 (1838), p. 120. ("That portion of Brazil bordering on Perú.")

Eastern Ecuador, northeastern Perú, and western Brazil on the Rio Purús.

Picumnus rufiventris grandis Carriker

Picumnus grandis Carriker, Proc. Acad. Nat. Sci. Philadelphia, 82, 1930, p. 367. (Puerto Yessup, Dept. Junín, Perú.)

Central Perú in depts. of Huánuco and Junín, and on the upper Río Ucayali; northern Bolivia in Dept. of Cochabamba.

?Picumnus fuscus Pelzeln

Picumnus fuscus "Natterer" Pelzeln, Orn. Bras., Abth. 3, 1870, p. 242 *nomen nudum,* p. 335 orig. descr. (Rio Guaporé, Mato Grasso, Brazil.)

Known only from the unique type, perhaps only the young of some other species of *Picumnus.*

Picumnus castelnau Malherbe

Picumnus castelnau Malherbe, Monogr. Picidées, 2,1862, p. 281; 4, pl. 117, f. 1, 2. (Sarayacu, Ecuador.)

Eastern Ecuador on the Río Napo and northeastern Perú on the Río Ucayali.

Picumnus leucogaster Pelzeln

Picumnus leucogaster "Natterer" Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241 *nomen nudum,* p. 335 orig. descr. (Forte do Rio Branco, Rio Cauamé.)

Middle Orinoco River in Venezuela and the Rio Branco region in northern Brazil.

Picumnus limae Snethlage

Picumnus limae E. Snethlage, Journ. f. Orn., 72, 1924, p. 448. (Serra do Castello, Ceará, Brazil.)

Known only from the Serra do Castello in southern Ceará.

Picumnus olivaceus dimotus Bangs

Picumnus dimotus Bangs, Bull. Mus. Comp. Zoöl., 39, 1903, p. 146. (Ceiba, Honduras.)

Caribbean slope of Honduras and Nicaragua.

Picumnus olivaceus flavotinctus Ridgway

Picumnus flavotinctus Ridgway, Proc. U. S. Nat. Mus., **11**, 1889, p. 543. (Pozo Azul de Pirrís, southwestern Costa Rica.)

Picumnus olivaceus panamensis Ridgway, Proc. Biol. Soc. Washington, **24**, 1911, p. 34. (Lion Hill Station, Panamá Railway, Panamá.)

Pacific slope of Costa Rica and western Panamá to the Canal Zone.

Picumnus olivaceus olivaceus Lafresnaye

Picumnus olivaceus Lafresnaye, Rev. Zool., 1845, p. 7. (Bogotá, Colombia.)

Eastern Panamá, and northern Colombia in the lower Cauca and Magdalena valleys.

Picumnus olivaceus harterti Hellmayr

Picumnus olivaceus harterti Hellmayr, Bull. Brit. Orn. Cl., **23**, 1909, p. 67. (Paramba, northwestern Ecuador.)

Southwestern Colombia and western Ecuador.

Picumnus olivaceus tachirensis Phelps and Gilliard

Picumnus olivaceus tachirensis Phelps and Gilliard, Am. Mus. Novit., no. 1153, 1941, p. 1. (Delícias, Páramo de Tamá region, Táchira, Venezuela.)

Region south of Medellin, Colombia, and western part of the State of Táchira, Venezuela.

Picumnus granadensis antioquensis Chapman

Picumnus granadensis antioquensis Chapman, Bull. Am. Mus. Nat. Hist., **34**, 1915, p. 640. (Peque, 5000 feet, Western Andes, Antioquia, Colombia.)

Northern end of the Andes in Dept. of Antioquia, Colombia.

Picumnus granadensis granadensis Lafresnaye

Picumnus granadensis Lafresnaye, Rev. Zool., 1847, p. 78. (Cali, Colombia.)

Picumnus canus Bangs, Proc. Biol. Soc. Washington, **23**, 1910, p. 72. (Naranjito, Río Dagua, western Colombia.)

Tropical zone of Colombia north of Barbacoas, the Cauca valley, and ranging into the subtropical zone of the Western Andes and the west slope of the Central Andes.

Picumnus nebulosus Sundevall

Picumnus nebulosus Sundevall, Consp. Av. Picinarum, 1866, p. 103. (South America; restricted to southern Brazil by Gyldenstolpe, Ark. Zool., **19A**, 1926, no. 1, p. 77.)

Picumnus jheringi Berlepsch, Ibis, 1884, p. 441. (Taquara do Mundo Novo, Rio Grande do Sul, Brazil.) [1]

Southern Brazil in states of Paraná and Rio Grande do Sul.

Picumnus exilis salvini Hargitt

Picumnus salvini Hargitt, Bull. Brit. Orn. Cl., 3, 1893, p. iii. (Locality unknown.)

Range not known.[2]

Picumnus exilis clarus Zimmer and Phelps

Picumnus buffoni clarus Zimmer and Phelps, Am. Mus. Novit., no. 1312, 1946, p. 6. (La Paragua, 280 meters, lower Paragua River, Bolívar, Venezuela.)

Venezuela in the eastern part of the State of Bolívar.

Picumnus exilis undulatus Hargitt

Picumnus undulatus Hargitt, Ibis, 1889, p. 354. (Mt. Roraima, 5000 feet, and Camacusa, British Guiana.)

Mountains of southern and eastern Venezuela, Merumé Mts. in British Guiana, and the upper Rio Branco region in Brazil.

Picumnus exilis buffoni Lafresnaye

Picumnus Buffoni Lafresnaye, Rev. Zool., 1845, p. 6. (Cayenne.)

Picumnus penardi "Scl." F. and A. Penard, De Vogels van Guyana, 1 [1908], p. 559. (Surinam.)

Picumnus buffoni amazonicus E. Snethlage, Orn. Monatsb., 22, 1914, p. 39. (Santo Antonio do Cachoeira, Rio Jary, Pará, Brazil.) Not *Picumnus amazonicus* E. Snethlage, 1906.

Picumnus buffoni meridionalis Domaniewski, Ann. Zool. Mus Polonici Hist. Nat., 4, 1925, p. 296. New name for *P. b. amazonicus* Snethlage, 1914, preoccupied.

Surinam, Cayenne and northeastern Brazil north of the Amazon.

Picumnus exilis alegriae Hellmayr

Picumnus exilis alegriae Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 419. (Tury-assú, Alto de Alegria, Maranhão, Brazil.)

Forested coast region of northwestern Maranhão.

Picumnus exilis exilis (Lichtenstein)

Picumnus minutus of authors, not *Motacilla minuta* Linné.

[1] *cf.* Gyldenstolpe, K. Sv. Vet.-Akad. Handl., 23, 1945 no. 1, p. 137.

[2] I am unable to discover the basis on which Domaniewski gives Bogotá as the type locality and the range as "Columbia".

Picus exilis H. Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 11. (Province of São Paulo; error = Baía.)

Southern Baía.

Picumnus borbae juruanus Gyldenstolpe

Picumnus borbae juruanus Gyldenstolpe, Ark. Zool., **33B**, 1941, no. 12, p. 8. (João Pessôa, left bank of the Rio Juruá, Brazil.)

Ucayali region of eastern Perú and western Brazil on the upper Juruá and the Eirú.

Picumnus borbae borbae Pelzeln

Picumnus Borbae Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241 (*nomen nudum*), p. 334 (orig. descr.). (Borba.)

Picumnus olivaceus Natterer ms. Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241, 334. In synonymy of *P. borbae*. Not *P. olivaceus* Lafresnaye, 1845.

Brazil south of the Amazon from the right bank of the lower Madeira to the left bank of the Tapajóz.

Picumnus aurifrons lafresnayi Malherbe

Picumnus Lafresnayi "J. Verreaux" Malherbe, Monogr. Picidées, **2**, 1862, p. 282; **4**, pl. 118, f. 4, 5. (Ecuador.)

Colombia (Caquetá), Ecuador (Zamora, Río Suno, Oyacachi), Perú (Bellavista, Río Curaray, Moyabamba).

Picumnus aurifrons taczanowskii Domaniewski

Picumnus punctifrons taczanowskii Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 297. (Huambo, northeastern Perú.)

Known only from the type locality.

Picumnus aurifrons punctifrons Taczanowski

Picumnus punctifrons Taczanowski, Orn. Pérou, **3**, 1886, p. 65. (Monterico and Huambo, Perú; restricted to Monterico by Domaniewski, 1925, p. 296.)

Central Perú (Monterico, La Merced, Huachipa, Chanchamayo).

Picumnus aurifrons flavifrons Hargitt

Picumnus flavifrons Hargitt, Ibis, 1889, p. 229. (Sarayacu, Perú.)

Eastern Perú on the Ucayali and western Brazil on the Juruá (Nova Olinda) and on the Solimões (Tefé).

Picumnus aurifrons purusianus Todd

Picumnus aurifrons purusianus Todd, Ann. Carnegie Mus., **30**, 1946, p. 317. (Hyutanahan, Rio Purús, Brazil.)

Western Brazil on the upper Rio Purús.

Picumnus aurifrons pusillus Pinto

Picumnus pusillus Pinto, Rev. Mus. Paulista, **20**, 1936, p. 234. (Codajáz, left bank of the Rio Solimões, Brazil.)

Western Brazil on the left bank of the Solimões (Codajáz, Manacapurú).

Picumnus aurifrons wallacii Hargitt

Picumnus wallacii Hargitt, Ibis, 1889, p. 230. ("Amazons".)

Brazil south of the Amazon between the Purús and the Madeira.

Picumnus aurifrons aurifrons Pelzeln

Picumnus aurifrons "Natterer" Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241 (*nomen nudum*), p. 334 (orig. descr.). (Engenho do Gama, Caiçara, Salto do Girao, Borba.)

Brazil south of the Amazon from the Guaporé and the Madeira to the left bank of the Tapajóz.

Picumnus aurifrons transfasciatus Hellmayr and Gyldenstolpe

Picumnus aurifrons transfasciatus Hellmayr and Gyldenstolpe, Ark. Zool., **29B**, 1937, no. 6, p. 1. (Marai, east bank of the lower Tapajóz, Brazil.)

Brazil south of the Amazon from the right bank of the Tapajóz to the Tocantins.

Picumnus temminckii Lafresnaye

Picumnus Temminckii Lafresnaye, Rev. Zool., 1845, p. 6. (Paraguay.)

Southeastern Brazil in states of São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.

Picumnus cirratus confusus Kinnear

Picumnus cirrhatus confusus Kinnear, Bull. Brit. Orn. Cl., **47**, 1927, p. 112. (Takatu River, British Guiana.)

British Guiana (Takatu River, Takatu Mts.), Cayenne (Mana).

Picumnus cirratus macconnelli Sharpe

Picumnus macconnelli Sharpe, Bull. Brit. Orn. Cl., **12**, 1901, p. 4. (British Guiana; error, the type probably came from northern Brazil; Pará substituted as type locality by Todd, 1946, p. 315.)

Picumnus amazonicus E. Snethlage, Orn. Monatsb., **14**, 1906, p. 60. (Marajó Island.)

Northern Brazil in State of Pará (Obidos, Monte Alegre, Santarem, Rio Tapajóz, Rio Tocantins; Marajó Island).

Picumnus cirratus cirratus Temminck

Picumnus cirratus Temminck, Pl. col., livr. 62, 1825, pl. 371, f. 1. (Brazil and Paraguay.)

Southeastern Brazil in states of Baía (?), Espirito Santo, Minas Gerais, Rio de Janeiro, São Paulo and Paraná.

Picumnus cirratus pilcomayensis Hargitt

Picumnus pilcomayensis Hargitt, Ibis, 1891, p. 606. (Río Pilcomayo, *i.e.* lower Pilcomayo in about long. 58° 40′ W.)

Southwestern Mato Grosso (Urucum), the Paraguayan Chaco, the Argentine Chaco in Formosa and Chaco and southward to northern Entre Ríos (Santa Elena).

Picumnus cirratus tucumanus Hartert

Picumnus cirrhatus tucumanus Hartert, Nov. Zool., **16**, 1909, p. 229. (Río Colorado, Tucumán.)

Northern Argentina in provinces of Tucumán and La Rioja.

Picumnus cirratus thamnophiloides Bond and de Schauensee

Picumnus cirratus thamnophiloides Bond and de Schauensee, Notulae Naturae, no. 105, 1942, p. 1. (Bermejo, 1350 feet, Tarija, Bolivia.)

Southern Bolivia in Dept. of Tarija and northwestern Argentina in provinces of Jujuy and Salta.

Picumnus cirratus d'orbygnianus Lafresnaye

Picumnus d'Orbygnianus Lafresnaye, Rev. Zool., 1845, p. 7. (No locality = Bolivia.)

Northern and central Bolivia in depts. of LaPaz, Cochabamba, Santa Cruz and Chuquisaca.

Picumnus cirratus jelskii Taczanowski

Picumnus jelskii Taczanowski, Proc. Zool. Soc. London, 1882, p. 41, pl. 2, f. 3. (Paltaypampa, Chanchamayo, Perú.)

Picumnus irenae Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 292. (Garita del Sol, Vitoc Valley, central Perú.) = juv. ♂

Picumnus jelskii vitocensis Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 293. (Garita del Sol, Vitoc Valley, central Perú.)

Central Perú.

Picumnus sclateri parvistriatus Chapman

Picumnus parvistriatus Chapman, Am. Mus. Novit., no. 18, 1921, p. 6. (Daule, Prov. Guayas, Ecuador.)

Western Ecuador in provinces of Manavi and Guayas.

Picumnus sclateri sclateri Taczanowski

Picumnus sclateri Taczanowski, Proc. Zool. Soc. London, 1877, p. 327. (Lechugal, Perú.)

Southwestern Ecuador in provinces of Loja and El Oro; northwestern Perú in Department of Tumbes.

Picumnus steindachneri Taczanowski

Picumnus steindachneri Taczanowski, Proc. Zool. Soc. London, 1882, p. 40, pl. 2, f. 1 ♂, f. 2, ♀. (Chirimoto, Perú.)

Northeastern Perú in the Huayabamba Valley.

Picumnus squamulatus squamulatus Lafresnaye

Picumnus squamulatus Lafresnaye, Rev. et Mag. Zool. (2), **6**, 1854, p. 208. (Colombia.)

Colombia, east of the Eastern Andes, including the Santa Marta region.

Picumnus squamulatus röhli Zimmer and Phelps

Picumnus squamulatus röhli Zimmer and Phelps, Am. Mus. Novit., no. 1270, 1944, p. 6. (Cotiza, 1000 meters, Caracas, Venezuela.)

Venezuela from Perijá, the Andes of Mérida and the upper Apure Valley, eastward through the Caracas region to Caripe in the mountains of northeastern Venezuela.

Picumnus squamulatus obsoletus Allen

Picumnus obsoletus Allen, Bull. Am. Mus. Nat. Hist., **4**, 1892, p. 55. (El Pilar, Venezuela.)

Northeastern Venezuela (El Pilar, Guaraúnos, Yaguaraparo).

Picumnus minutissimus (Pallas)

Picus minutissimus Pallas, Neue Nordische Beyträge, **3**, 1782, p. 5, pl. 1, f. 2. (Surinam and Cayenne; restricted to Cayenne by Berlepsch, Nov. Zool., **15**, 1908, p. 274.)

Picumnus lepidotus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 14. (No locality.)

Picumnus spilogaster Sundevall, Consp. Av. Picinarum, 1866, p. 100. (Guiana.)

Surinam and Cayenne.

Picumnus pallidus Snethlage

Picumnus pallidus E. Snethlage, Journ. f. Orn., **72**, 1924, p. 449. (Flor do Prado, near Quatipurú, Pará.)

Known only from the type locality in eastern Pará.

Picumnus albosquamatus albosquamatus d'Orbigny

Picumnus albosquamatus d'Orbigny, Voy. Am. Mérid., **4**, Ois., livr. 50, 1840, pl. 64, f. 2; livr. 89, 1847, p. 380. (Río Tamanipaya, Yungas, Bolivia.)

Bolivia in depts. of La Paz, Beni and Santa Cruz.

Picumnus albosquamatus corumbanus Lima

Picumnus lepidotus corumbanus Lima, Rev. Mus. Paulista, **12**, 1920, pt. 2, p. 94, pl. 2, f. 2. (Corumbá, Mato Grosso.)

Picumnus arileucus Oberholser, Proc. Colorado Mus. Nat. Hist., **10**, 1931, p. 25. (Descalvados, Mato Grosso.)

Southwestern Mato Grosso from Descalvados to Urucúm.

Picumnus guttifer Sundevall

Picumnus guttifer Sundevall, Consp. Av. Picinarum, 1866, p. 101. (Goiáz, Brazil.)

Picumnus sagittatus var. *Sharpei* H. Ihering, Rev. Mus. Paulista, **5**, 1902, p. 279. (Rincão, and Baurú, São Paulo.)

Picumnus caipira H. Ihering, Rev. Mus. Paulista, **5**, 1902, p. 280. (Victoria, São Paulo.)

Brazil in states Maranhão, Goiáz, Minas Gerais, Mato Grosso and São Paulo.

Picumnus varzeae Snethlage

Picumnus varzeae E. Snethlage, Orn. Monatsb. **20**, 1912, p. 154. (Fazenda Paraiso, near Faro, Pará.)

Islands in the Amazon near Obidos and on the lower Rio Jamundá, Brazil.

Picumnus pygmaeus (Lichtenstein)

Picus pygmaeus H. Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 12. (Brazil = Baía.)

Northeastern Brazil in states of Maranhão, Piauí and Baía.

Picumnus asterias Sundevall

Picumnus asterias Sundevall, Consp. Av. Picinarum, 1866, p. 97. (Brazil.)

Known only from the unique type.

Picumnus pumilus Cabanis and Heine

Picumnus pumilus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 16. (No locality.)

Picumnus stellae Berlespsch and Hartert,[1] Nov. Zool., 9, 1902, p. 96. (Maipures,[2] upper Orinoco River, Colombia.)

Known only from the type of *pumilus* without locality, and the original series of eleven specimens of *stellae,* all from Maipures.

Picumnus innominatus simlaensis (Ticehurst)

Vivia innominata simlaensis Ticehurst, Bull. Brit. Orn. Cl., 54, 1933, p. 20. (Murree.)

Northwestern Himalayas from Murree to Dehra Dun.

Picumnus innominatus innominatus Burton

Picumnus innominatus Burton, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 154. (Himalayas = Sikkim.)

Nepal and Sikkim to eastern Assam.

Picumnus innominatus avunculorum Hartert

Picumnus innominatus avunculorum Hartert, Vög. pal. Fauna, 2, 1912, p. 937. (Kotagiri, Nilgiri Hills, India.)

Southern India from North Kanara to Travancore.

Picumnus innominatus malayorum Hartert

Picumnus innominatus malayorum Hartert, Vög. pal. Fauna, 2, 1912, p. 937. (Gunong Ijau, Perak, Malay Peninsula.)

Vizagapatam region of eastern India, eastern Burma, South Shan States, Tonkin, Annam, Laos, Siam, Malay States, Sumatra, Borneo.

Picumnus innominatus chinensis (Hargitt)

Vivia chinensis Hargitt, Ibis, 1881, p. 228, pl. 7. ("May-chee, China," = Meiki River, Chekiang?)

China in provinces of Kansu, Szechwan, Yunnan, Hupeh, Kiangsu Chekiang, Fukien, Kiangsi, Kwangsi and Kwangtung; northeastern Tonkin (Langson, 1500 meters).

Genus **NESOCTITES** Hargitt

Nesoctites Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 8 (in key), p. 552. Type, by original designation and monotypy, *Picumnus micromegas* Sundevall.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 307–309.

[1] One of the type series of *P. stellae,* loaned by the American Museum bears the following notation in Hellmayr's handwriting "= *pumilus* Cab. and Heine type examined by C. E. H."

[2] For a statement on the location of Maipures, see Dugand and Phelps, Caldasia, 4, 1946, p. 243-276.

Wetmore and Swales, Bull. U. S. Nat. Mus., no. 155, 1931, p. 296–299.

Nesoctites micromegas micromegas (Sundevall)

Picumnus micromegas Sundevall, Consp. Av. Picinarum, 1866, p. 95. (Brazil; error = Hispaniola.)

Island of Hispanola.

Nesoctites micromegas abbotti Wetmore

Nesoctites abbotti Wetmore, Proc. Biol. Soc. Washington, **41**, 1928, p. 167. (Gonave Island.)

Gonave Island.

Genus **VERREAUXIA** Hartlaub

Verreauxia Hartlaub, Arch. Naturg., **22**, 1856, Bd. 2, p. 28. Type, by original designation, *Sasia africana* J. [and E.] Verreaux.

Blax Reichenow, Orn. Monatsb., **2**, 1894, p. 126. Type, by original designation and monotypy, *Blax gymnophthalmus* Reichenow. Not *Blax* Thomson, 1860, Insecta.

Blacops Richmond, Auk, **16**, 1899, p. 186. New name for *Blax* Reichenow, preoccupied.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 460–462.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 559–562.

Verreauxia africana (Verreaux and Verreaux)

Sasia africana J. and E. Verreaux, Rev. et. Mag. Zool. (2), **7**, 1855, p. 217. (Gaboon.)

Blax gymnophthalmus Reichenow, Orn. Monatsb., **2**, 1894, p. 126. (Jaunde, Cameroons.)

Nigeria (Lokoja, sight record only), southern Cameroons, Gaboon and the Congo forest, eastward to the upper Ituri and south to the Kasai district.

Genus **SASIA** Hodgson

Sasia Hodgson, Journ. As. Soc. Bengal, **5**, 1836, p. 778. Type, by original designation, *Sasia ochracea* Hodgson.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 95–98.
Deignan, Bull. U. S. Nat. Mus., no. 186, 1945, p. 253–254.
Stresemann, Arch. Naturg., **87**, Abth. A, 1921, Heft 7, p. 108–109.

Sasia ochracea ochracea Hodgson

Sasia ochracea Hodgson, Journ. As. Soc. Bengal, **5**, 1836, p. 778. (Nepal.)

The Himalayas from Garhwal through Nepal and Sikkim to Assam north of the Brahmaputra.

Sasia ochracea kinneari Stresemann

Sasia ochracea kinneari Stresemann, Journ. f. Orn., 77, 1929, p. 335. (Mts. of northern Kwangsi, 3000–4000 feet.)

Southeastern Yunnan, Kwangsi and Tonkin.

Sasia ochracea querulivox Stuart Baker

Sasia ochracea querulivox Stuart Baker, Bull. Brit. Orn. Cl., 47, 1926, p. 43. (Tipperah Hills, eastern Bengal.)

Assam south of the Brahmaputra, eastern Bengal, Manipur, Hill Tipperah, and northwestern Burma.

Sasia ochracea reichenowi Hesse

Sasia ochracea reichenowi Hesse, Orn. Monatsb., 19, 1911, p. 181. (Burma; type from Thayetchaung, Tenasserim.)

Burma (except areas inhabited by *S. o. querulivox*), Southern Shan States, northern Tenasserim, northern and eastern Siam, Laos, Annam and Cochinchina.

Sasia ochracea hasbroucki Deignan

Sasia ochracea hasbroucki Deignan, Journ. Washington Acad. Sci., 37, 1947, p. 25. (Maliwun, Mergui Dist., Tenasserim.)

Southern Tenasserim from about lat. 12° 30′ N., south to the Isthmus of Kra.

Sasia abnormis abnormis (Temminck)

Picumnus abnormis Temminck, Pl. col., livr. 62, 1825, pl. 371, f. 3. (Java.)

Sasia everetti Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 555 (in key), p. 559, pl. 15. (Lumbidan, Borneo.)

Southern Tenasserim and southwestern Siam southward over the Malay Peninsula; Sumatra, Billiton, Java (absent from the eastern part), Borneo.

Sasia abnormis magnirostris Hartert

Sasia abnormis magnirostris Hartert, Nov. Zool., 8, 1901, p. 51. (Nias Island.)

Nias Island.

Subfamily PICINAE

Genus GEOCOLAPTES Swainson

Geocolaptes Burchell MS. Swainson, in Swainson and Richardson, Fauna Bor.-Am., 2, 1831 (1832), p. 315, note. Type, by

original designation and monotypy, *Picus terrestris* Burchell = *Picus olivaceus* Gmelin.

Sclater, in Stark and Sclater, Bds. S. Afr., **3**, 1903, p. 126–128.

Geocolaptes olivaceus (Gmelin)

Picus olivaceus Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 431. (Cape of Good Hope.)

South Africa north to the van Rhynsdorp and Carnarvon districts, Pretoria and Natal; Drakensberg.

cf. Roberts, Bds. S. Afr., 1940, p. 182, pl. 29, f. 445.

Genus **COLAPTES** Vigors

Colaptes Vigors, Trans. Linn. Soc. London, **14**, pt. 3, 1826, p. 457, note. Type, by original designation, *Cuculus auratus* Linné.

Soroplex Gloger, Hand-und Hilfsb. Naturg., 1842 (1841), p. 198. Type, by monotypy, *Picus campestris* Vieillot.

Pituipicus Bonaparte, Ateneo Italiano, **2**, 1854, p. 126. (Consp. Vol. Zygodact., p. 11). Type, by monotypy, *Picus chilensis* [Garnot and] Lesson = *Picus pitius* Molina.

cf. Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 410–416.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., **12**, 1929, p. 405–406.

Pergolani, Hornero, **8**, 1942, p. 152–170, pl. 2.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 12–39.

Zimmer, Field Mus. Nat. Hist. Publ., Zool. Ser., **17**, 1930, p. 307–308.

Colaptes cafer cafer (Gmelin)

Picus cafer Gmelin, Syst. Nat. **1**, pt. 1, 1788, p. 431. (Cape of Good Hope, error = Bay of Good Hope, Nootka Sound, British Columbia[1]).

Colaptes mexicanus saturatior Ridgway, Proc. Biol. Soc. Washington, **2**, 1884, p. 90. (Neah Bay and Simiahmoo, Washington.)

Northwest coast of North America from southern Alaska (Sitka) to Humboldt County, California.

Colaptes cafer collaris Vigors

Colaptes collaris Vigors, Zool. Journ., **4**, 1829, p. 354. (Western shores of North America = Monterey, California.)

[1] *cf.* Palmer, Auk, 33, 1916, p. 322.

Colaptes cafer canescens Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 314, 1935, p. 1. (Bear Lake Outlet, 5900 feet, 4 miles southwest of Montpelier, Bear Lake Co., Idaho.)

Colaptes cafer chihuahuae Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 314, 1935, p. 2. (Thirty miles west of Miñaca, Chihuahua.)

Southeastern British Columbia, southern Alberta and southwestern Saskatchewan, south to southern California, Sonora, Chihuahua, Durango and Zacatecas; migratory in the northern part of its range. Along the western border of the Great Plains hybridizes extensively with *C. auratus.*

? Colaptes cafer sedentarius van Rossem

Colaptes cafer sedentarius van Rossem, Condor, **46**, 1944, p. 245. (Prisoners' Harbor, Santa Cruz Island, California.)

Resident on Santa Cruz Island, California. Doubtfully distinct from *C. c. collaris.*

† Colaptes cafer rufipileus Ridgway

Colaptes mexicanus rufipileus Ridgway, Bull. U. S. Geol. Geogr. Surv. Terr., 2, no. 2, 1876, p. 191. (Guadalupe Island, Baja California.)

Formerly resident on Guadalupe Island off the Pacific coast of Baja California; now extinct.

Colaptes cafer martirensis Grinnell

Colaptes cafer martirensis Grinnell, Auk, **44**, 1927, p. 67. (La Grulla, 7200 feet, Sierra San Pedro Mártir, Baja California.)

Baja California on the western slopes of the Sierra San Pedro Mártir and Sierra Juárez.

Colaptes cafer nanus Griscom

Colaptes cafer nanus Griscom, Bull. Mus. Comp. Zoöl., **75**, 1934, p. 381. (Ipina, San Luís Potosí, México.)

Northeastern México in states of Coahuila, Nuevo León, Tamaulipas and San Luís Potosí, extending into southwestern Texas (Chisos Mts.).

Colaptes cafer mexicanus Swainson

Colaptes Mexicanus Swainson, Philos. Mag., n.s., 1, 1827, p. 440. (Real del Monte, Hidalgo, México.)

Central México in states of Nayarit, Jalisco, Hidalgo, Veracruz, Puebla, México, Morelos, Michoacán, Guerrero and Oaxaca.

Colaptes cafer mexicanoïdes Lafresnaye [1]

[1] Replaces *Colaptes sub-mexicanus* Sundevall of Sharpe's Hand-list.

Colaptes mexicanoïdes Lafresnaye, Rev. Zool., 1844, p. 42. (México.)

Highlands of Chiapas and Guatemala.

Colaptes cafer pinicolus Dickey and van Rossem

Colaptes mexicanoides pinicolus Dickey and van Rossem, Proc. Biol. Soc. Washington, **41**, 1928, p. 131. (Los Esesmiles, 8000 feet, Dept. Chalatenango, El Salvador.)

Highlands of El Salvador, Honduras and northern Nicaragua.

Colaptes auratus borealis Ridgway

Colaptes auratus borealis Ridgway, Proc. Biol. Soc. Washington, **24**, 1911, p. 31. (Nulato, lower Yukon River, Alaska.)

From limit of trees in Alaska, Mackenzie, northern Manitoba and Labrador (lat. 55°N.) southward (east of the Rockies) to eastern Montana, northern Ontario and Anticosti Island; south in winter to the Mississippi Valley, Arizona and California.

Colaptes auratus luteus Bangs

Colaptes auratus luteus Bangs, Auk, **15**, 1898, p. 177. (Watertown, Massachusetts.)

Breeds from eastern Montana, North Dakota, Minnesota, southern Ontario, southern Quebec and Newfoundland, southward east of the Rocky Mountains, to northern Texas, northern Arkansas, southeastern Missouri, Kentucky and south-central and western Virginia, and in the mountains of eastern Tennessee and western North Carolina. Winters in reduced numbers in the northern parts of its range and to southern Texas, the Gulf Coast and the South Atlantic States.

Colaptes auratus auratus (Linné)

Cuculus auratus Linné, Syst. Nat., ed. 10, **1**, 1758, p. 112. (Carolina, *i.e.*, South Carolina.)

Resident from eastern Texas, southern Arkansas, southeastern Missouri, Tennessee, North Carolina and southeastern Virginia, to the Gulf Coast and southern Florida. Extends up the Mississippi Valley to southern Illinois and southern Indiana.

Colaptes auratus chrysocaulosus Gundlach

Colaptes chrysocaulosus Gundlach, Ann. Lyc. Nat. Hist. New York, **6**, 1858, p. 273. (Cuba.)

Island of Cuba.

Colaptes auratus gundlachi Cory

Colaptes gundlachi Cory, Auk, **3**, 1886, p. 498, 502. (Island of Grand Cayman, West Indies.)

Island of Grand Cayman.

Colaptes chrysoïdes mearnsi Ridgway

Colaptes chrysoides mearnsi Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 32. (Quitovaquito, Arizona.)

Southeastern California and southwestern Arizona to northwestern Baja California and northern Sonora; Tiburón Island.

Colaptes chrysoïdes tenebrosus van Rossem

Colaptes chrysoides tenebrosus van Rossem, Trans. San Diego Soc. Nat. Hist., 6, 1930, p. 171. (Obregón, Sonora, México.)

Central and southern Sonora and northern Sinaloa.

Colaptes chrysoïdes brunnescens Anthony

Colaptes chrysoides brunnescens Anthony, Auk, 12, 1895, p. 347. (San Fernando, Baja California.)

Central Baja California between lat. 28° and 30° N.

Colaptes chrysoïdes chrysoïdes (Malherbe)

Geopicus (Colaptes) chrysoïdes Malherbe, Rev. et Mag. Zool. (2), 4, 1852, p. 553. (America; Cape San Lucas, Baja California fixed as type locality by Anthony, Auk, 12, 1895, p. 347.)

Baja California south of lat. 28° N.

Colaptes rupicola cinereicapillus Reichenbach

Colaptes cinereicapillus Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 416, pl. DCLXXX, figs. 4489–90. (Guayabamba, Perú.)

Highlands of northern Perú.

Colaptes rupicola puna Cabanis

Colaptes puna Cabanis, Journ. f. Orn., 31, 1883, p. 98. (Highlands of western Perú = Jauli Valley, Perú, *ex* Lichtenstein, Nomencl. Av., 1854, p. 77, where a *nomen nudum.*)

Highlands of central and southern Perú.

Colaptes rupicola rupicola d'Orbigny

Colaptes rupicola d'Orbigny. Voy. Am. Mérid., Ois., livr. 51, 1840, pl. 62, f. 1 (No locality.); *idem,* livr. 89, 1847, p. 377. (La Paz, Chuquisaca, Cochabamba and Potosí, Bolivia; type from Sicasica, *fide* Ménégaux, Bull. Soc. Philom. Paris (10), 1, 1909, p. 207–208.)

Highlands of Bolivia, northwestern Argentina in provinces of Jujuy, Catamarca, Salta and Tucumán, and northern Chile in Province of Tarapacá.

Colaptes pitius pitius (Molina)

Picus Pitius Molina, Sagg. Stor. Nat. Chili, 1782, p. 343. (Chile.)

Central and southern Chile from Aconcagua to the Guaitecas Islands.

Colaptes pitius cachinnans Wetmore and Peters

Colaptes pitius cachinnans Wetmore and Peters, Proc. Biol. Soc. Washington, **35**, 1922, p. 43. (Bariloche, Río Negro, Argentina.)

Wooded eastern slopes of the Andes in Argentina from Neuquén to Santa Cruz.

Colaptes campestris chrysosternus (Swainson)

Picus chrysosternus Swainson, Mem. Wernerian Nat. Hist. Soc., **3**, 1821, p. 289 (Sertão of Bahia, Brazil.)

Soroplex campestris cearæ Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 414, note b. (Quixada, Ceará.)

Northeastern Brazil in states of Maranhão, Ceará, Pernambuco and northern Baía; eastern Pará(?).

Colaptes campestris campestris (Vieillot)

Picus campestris Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 101. (Paraguay.)

Eastern Bolivia; central and southeastern Brazil in states of Mato Grosso, Goiáz, Espirito Santo, Rio de Janeiro, São Paulo, Paraná, Minas Gerais.

Colaptes campestris campestroïdes (Malherbe)

Geopicos (Colaptes) campestroïdes Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 541. (South America.)

Geopicos agricola Malherbe, Mém Acad. Nat. Metz, **30**, 1848–1849 (1849), p. 359, *nomen nudum.*

Geopicus agricola Malherbe, Monogr. Picidées, **2**, 1862, p. 254; **4**, pl. 108, figs. 4, 5. (Brazil.) First description.

Southern Brazil in State of Rio Grande do Sul; Paraguay; Uruguay; greater part of Argentina south to Río Negro and La Pampa; Bolivia(?).[1]

[1] Specimen without exact locality, recorded by Pergolani, *antea*, p. 167; Malherbe, *t.c.*, 1862, states that the specimen in the Stuttgart Museum is from Bolivia; this form not listed from Bolivia by Bond and deSchauensee, Proc. Acad. Nat. Sci. Philadelphia, **95**, 1943, p. 216.

Genus **NESOCELEUS** Sclater and Salvin

Nesoceleus Sclater and Salvin, Nomencl. Av. Neotrop., 1873, p. 101, 155. Type, by original designation and monotypy, *Colaptes fernandinae* Vigors.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 39–41.

Nesoceleus fernandinae (Vigors)

Colaptes Fernandinæ Vigors, Zool. Journ., **3**, 1827, p. 445. (Near Habana, Cuba.)

Island of Cuba.

Genus **CHRYSOPTILUS** Swainson

Chrysoptilus Swainson, in Swainson and Richardson, Fauna Bor.-Am., **2**, 1831 (1832), p. 300. Diagnosis only; species added, Swainson, Classif. Bds., **2**, 1837, p. 308. Type, by subsequent designation, *C. cayanensis* (Gm.) Swains., pl. enl. 613 = *Picus punctigula* Boddaert. (G. R. Gray, List Gen. Bds., 1840. p. 54.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 348–350.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 440–447.

Laubmann, Verh. Orn. Ges. Bayern, **20**, 1934, p. 297–308.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 342–344.

Steullet and Deautier, Obra del Cincuentenario del Mus. de La Plata, **1**, entr. 4, 1946, p. 955–973.

Todd, Ann. Carnegie Mus., **30**, 1946, p. 301–304.

Wetmore, Bull. U. S. Nat. Mus., no. 133, 1926, p. 219–223.

Chrysoptilus melanochloros mariae Hargitt

Chrysoptilus mariæ Hargitt, Ibis, 1889, p. 59. (Chamicuros, Perú, error = Marajó Island.)

Known only from Marajó Island at the mouth of the Amazon, and from Mangunça Island off the northern shore of Maranhão.

Chrysoptilus melanochloros flavilumbis (Sundevall)

Picus flavilumbis Sundevall, Consp. Av. Picinarum, 1866, p. 74. (Baía.)

Chrysoptilus melanochlorus juæ Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 441 (in key), p. 444, note *a*. (Jua, near Iguatú, Ceará, Brazil.)

Eastern Brazil in states of Maranhão, Piauí, Ceará, Pernambuco and northeastern Baía.

Chrysoptilus melanochloros nattereri (Malherbe)

Picus Nattereri Malherbe, Mém. Soc. Roy. Sci. Liége, 2, 1845, p. 66. (Brazil = Cuyabá, Mato Grosso.)

Eastern Bolivia; Brazil in states of Baía (Ilha Madre de Deus, Corupeba), Goiáz, western Minas Gerais, western São Paulo, Mato Grosso.

Chrysoptilus melanochloros melanochloros (Gmelin)

Picus melanochloros Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 427. (Cayenne; error, Rio de Janeiro substituted by Hellmayr, Verh. Orn. Ges. Bayern, 12, 1915, p. 154.)

Brazil in states of Minas Gerais (eastern), Espirito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul and Mato Grosso (southeastern).

? Chrysoptilus melanochloros cristatus (Vieillot)

Picus cristatus Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 98. (Paraguay; restricted to Colonia Nueva Germania, northeastern Paraguay by Laubmann, *antea,* p. 304.)

Eastern Paraguay; Uruguay; northeastern Argentina in Misiones and northeastern Corrientes.

Chrysoptilus melanochloros melanolaimus (Malherbe)

Chrysopicus Melanolaimus Malherbe, Bull. Soc. Hist. Nat. Moselle, 8me cahier, 1857, p. 11. (Chile [1] and Bolivia.)

Colaptes leucofrenatus Leybold, Leopoldina, 8, 1873, p. 53. (Estancia la Aguirre [near San Carlos], Mendoza, Argentina.)

Bolivia in departments of Cochabamba, Potosí and Tarija, southward in western Argentina in provinces of Jujuy, western Salta, Tucumán, western Santiago del Estero, Catamarca, La Rioja, western Córdoba, Mendoza, San Luís, La Pampa and northern Neuquén.

Chrysoptilus melanochloros nigroviridis C. Grant

Chrysoptilus nigroviridis C. Grant, Ibis, 1911, p. 321. (Río Pilcomayo, Paraguay.)

Bolivian and Paraguayan Chaco east to the Río Paraguay and south into northern Argentina in eastern Salta, Formosa, Chaco, northeastern Santiago del Estero and northern Santa Fé.

Chrysoptilus melanochloros perplexus Cory

Chrysoptilus melanolœmus perplexus Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, no. 2, pt. 2, 1919, p. 442, note b. (Conchitas, Buenos Aires.)

[1] This species does not occur in Chile; the type in the British Museum from Bolivia is the specimen figured in Malherbe's Monogr. Picidées, pl. 89, f.7.

Eastern Argentina in southern Santa Fé, southern Corrientes, Entre Ríos and Buenos Aires.

Chrysoptilus melanochloros patagonicus Laubmann

Chrysoptilus melanolaimus patagonicus Laubmann, Verh. Orn. Ges. Bayern, **20**, 1934, p. 302. (Río Lamay [= Limay], Patagonia.)

Western Argentina in southern Neuquén and western Río Negro.

Chrysoptilus punctigula lutescens Griscom

Chrysoptilus punctigula lutescens Griscom, Bull. Mus. Comp. Zoöl., **69**, 1929, p. 16. (El Real, Darién.)

Eastern Darién; doubtfully distinct from *C. p. ujhelyii.*

Chrysoptilus punctigula ujhelyii Madarász

Chrysoptilus ujhelyii Madarász, Orn. Monatsb., **20**, 1912, p. 97. (Aracataca, south of Santa Marta, Colombia.)

Arid Caribbean coastal region of northern Colombia.

Chrysoptilus punctigula striatigularis Chapman

Chrysoptilus punctigula striatigularis Chapman, Bull. Am. Mus. Nat. Hist., **33**, 1914, p. 611. (Cali, 3500 feet, Cauca Valley, Colombia.)

Tropical zone of Colombia west of the Eastern Andes south to about lat. 4° N.

Chrysoptilus punctigula punctipectus Cabanis and Heine

Chrysoptilus punctipectus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 163, note. (Venezuela.)

Colombia east of the Eastern Andes and the larger part of Venezuela, except those areas occupied by other races.

? Chrysoptilus punctigula notatus Cory

Chrysoptilus punctigula notata Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 442 (in key), 445 (in key), p. 446. ("Colombia".)

Known only from the unique type; perhaps only an aberrant specimen of *C. p. punctipectus.*

Chrysoptilus punctigula zuliae Cory

Chrysoptilus punctigula zuliae Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., **1**, 1915, p. 305. (Encontrados, Zulia, Venezuela.)

Humid forest region southwest of Lake Maracaibo, Venezuela.

Chrysoptilus punctigula speciosus (Malherbe)

Chloropicus speciosus Malherbe, Monogr. Picidées, **4**, 1862, pl. 87, f. 6. (No locality = Nauta, Perú, *ex* Sclater MS.)

Southeastern Colombia, eastern Perú and the Amazon valley in Brazil eastward to the Rio Negro on the north and to the Purús and northeastern Bolivia on the south.

Chrysoptilus punctigula punctigula (Boddaert)

Picus punctigula Boddaert, Table Pl. enlum., 1783, p. 37. (Cayenne; based on Daubenton, pl. 613.)

Surinam and Cayenne [1].

Chrysoptilus punctigula rubidipectus Todd

Chrysoptilus punctigula rubidipectus Todd, Ann. Carnegie Mus., **30**, 1946, p. 303. (Islands near Obidos, Brazil.)

Brazil north of the Amazon from the region about Obidos northeastward to the French Guiana frontier.

Chrysoptilus punctigula guttatus (Spix)

Picus guttatus Spix, Av. Bras., **1**, 1824, p. 61, pl. 53, f. 1. (Forests of the Amazon, = Santarem, Brazil.)

Chrysoptilus punctigula pallidior Griscom and Greenway, Bull. Mus. Comp. Zoöl., **81**, 1937, p. 431. (Lago Grande, Amazon River, Brazil.)

South bank of the lower Amazon valley in the vicinity of the mouth of the Tapajóz.

Chrysoptilus atricollis atricollis (Malherbe)

Chrysopicos atricollis Malherbe, Rev. et Mag. Zool. (2), **2**, 1850, p. 156. (Perú.)

Western Perú (Río Pacasmayo, Lima, Menucucho, Hacienda Llagueda.)

Chrysoptilus atricollis peruvianus Reichenbach

Chrysoptilus peruvianus Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scans. c Picinae, p. 340, 419, pl. DCLXXX, figs. 4493–94. (Perú; Cutervo designated as type locality by Zimmer, Field Mus. Nat. Hist. Publ., Zool. Ser., **17**, 1930, p. 309.)

Chrysoptilus atricollis lymani Bangs and Noble, Proc. New England Zoöl. Cl., **6**, 1918, p. 85. (Huancabamba, Perú.)

Eastern Perú (Cutervo, Callacate, Chachapoyas, Huancabamba, Río Marañón.)

[1] The Cat. Bds. Brit. Mus., **18**, p. 117 lists two specimens from Trinidad where the species is not known to occur, and one from "Demerara"; no woodpecker of this genus is recorded in Chubb's Bds. Brit. Guiana.

Genus PICULUS Spix

Piculus Spix, Av. Bras., 1, 1824, 3[d] p. of index. Type, by subsequent designation *Piculus macrocephalus* Spix = *Picus chrysochloros* Vieillot. (Oberholser, Proc. Biol. Soc. Washington, 36, 1923, p. 201.

Chloronerpes Swainson, Classif. Bds., 2, 1837, p. 307. Type, by subsequent designation, *C. rubiginosus* Swains. Zool. Ill., pl. 14 = *Picus rubiginosus* Swainson. (G. R. Gray, List Gen. Bds., 1840, p. 54.)

Hypoxanthus Bonaparte, Ateneo Italiano, 2, 1854, p. 126. (Consp. Vol. Zygodact., p. 11.). Type, by monotypy and tautonymy, *Picus rivolii* Boissonneau = *Colaptes hypoxanthus* Blyth, 1845.

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 345–348; 55, 1926, p. 359–361.

——, Am. Mus. Novit., no. 96, 1923, p. 6–7.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, no. 2, pt. 2, 1919, p. 416–417; 433–440.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 408–410.

Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 236–244.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 339–342.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 124–138.

Piculus rivolii quindiuna (Chapman)

Hypoxanthus rivolii quindiuna Chapman, Am. Mus. Novit., no. 96, 1923, p. 6. (Laguneta, 10300 feet, Central Andes, Colombia.)

Humid temperate and subtropical zones of the north portion of the Central Andes of Colombia.

Piculus rivolii rivolii (Boissonneau)

Picus Rivolii Boissonneau, Rev. Zool., 1840, p. 36. (No type locality; Chipaque, 9500 feet, 15 miles east of Bogotá, designated by Chapman, 1917, p. 345.)

Temperate zone of the Eastern Andes of Colombia.

Piculus rivolii meridae (Chapman)

Hypoxanthus rivolii meridæ Chapman, Am. Mus. Novit., no. 96, 1923, p. 6. (Mérida, Venezuela.)

Humid temperate zone of the Andes of Mérida, Venezuela.

Piculus rivolii brevirostris (Taczanowski)

Hypoxanthus brevirostris Taczanowski, Proc. Zool. Soc. London, 1874 (1875), p. 546. (Higos and Chilpes, central Perú.)

Temperate and subtropical zones of the Andes from southwestern Colombia and Ecuador to central Perú.

Piculus rivolii atriceps (Sclater and Salvin)

Hypoxanthus atriceps Sclater and Salvin, Proc. Zool. Soc. London, 1876, p. 254. (Huasampilla, Perú.)

Southeastern Perú to Bolivia.

Piculus auricularis sonoriensis van Rossem and Hachisuka

Piculus auricularis sonoriensis van Rossem and Hachisuka, Proc. Biol. Soc. Washington, **50**, 1937, p. 195. (Rancho Santa Barbara, 5000 feet, 20 miles northeast of Guirocoba, southeastern Sonora.)

Western México in southeastern Sonora and possibly adjacent portions of Chihuahua and Sinaloa.

Piculus auricularis auricularis (Salvin and Godman)

Chloronerpes auricularis Salvin and Godman, Ibis, 1889, p. 381. (Xautipa, Sierra Madre del Sur, Guerrero.)

Western México in southern Sinaloa, Jalisco and Guerrero.

Piculus aeruginosus (Malherbe)

Chrysopicus æruginosus Malherbe, Monogr. Picidées, **2**, 1862, p. 171; **4**, pl. 90[1], figs. 1, 2, 3. *Ex* Lichtenstein ms, *nomen nudum* (México.)

Northeastern México in southern Nuevo León, southern Tamaulipas, San Luís Potosí, northern Veracruz and Puebla.

Piculus rubiginosus yucatanensis (Cabot)

Picus Yucatanensis Cabot, Proc. Boston Soc. Nat. Hist., **1**, 1844, p. 164. (Yucatán; type from the road between Chemax and Yalahao, *ex* Boston Journ. Nat. Hist., **5**, 1845, p. 92.)

Southern Veracruz, Oaxaca, Tabasco, Yucatán, northern Guatemala, British Honduras, Honduras, El Salvador and Nicaragua.

? Piculus rubiginosus differens Griscom

Piculus rubiginosus differens Griscom, Am. Mus. Novit., no. 379, 1929, p. 11. (Finca Carolina, 3000 feet, ten miles south of Tumbador, district of San Marcos, Guatemala.)

Pacific slope of Guatemala below 3500 feet. Doubtfully distinct from *P. r. yucatanensis*.

[1] The plate is lettered *Chrysopicus æruginosus*.

Piculus rubiginosus maximus Griscom

Piculus rubiginosus maximus Griscom, Am. Mus. Novit., no. 379, 1929, p. 11. (Chanquejelve, 5000 feet, Huehuetenango, Guatemala.)

Eastern and central parts of the Pacific highlands of Guatemala between 5000 and 6500 feet, and adjoining parts of Chiapas.

Piculus rubiginosus uropygialis (Cabanis)

Chloronerpes uropygialis Cabanis, Journ. f. Orn., **10**, 1862, p. 321. (Cerro de la Candelaria, Costa Rica.)

Mountains of Costa Rica and western Panamá.

Piculus rubiginosus alleni (Bangs)

Chloronerpes yucatanensis alleni Bangs, Proc. New England Zoöl. Cl., **3**, 1902, p. 83. (San Sebastián, 6600 feet, Sierra Nevada de Santa Marta, Colombia.)

Santa Marta Mts., Colombia.

Piculus rubiginosus buenavistae (Chapman)

Chloronerpes rubiginosus buenavistæ Chapman, Bull. Am. Mus. Nat. Hist, **34**, 1915, p. 386. (Buenavista, 4500 feet, above Villavicencio, Colombia.)

Subtropical zone of the Eastern Andes of Colombia and eastern slopes of the Andes of Ecuador.

Piculus rubiginosus meridensis (Ridgway)

Chloronerpes rubiginosus meridensis Ridgway, Proc. Biol. Soc. Washington, **24**, 1911, p. 33. (Near Mérida, Venezuela.)

Mountains of western Venezuela in the Andes of Mérida and Sierra de Perijá.

Piculus rubiginosus rubiginosus (Swainson)

Picus rubiginosus Swainson, Zool. Illustr., **1**, 1820, pl. 14 and text. ("Spanish Main" = Caracas, Venezuela, by designation of Hellmayr, Verh. Orn. Ges. Bayern, **13**, 1918, p. 315, note.)

Mountains of northern Venezuela in states of Carabobo and Sucre and the Federal District.

Piculus rubiginosus guianae (Hellmayr)

Chloronerpes rubiginosus guianae Hellmayr, Verh. Orn. Ges. Bayern, **13**, 1918, p. 314. (Yuruani River, 2700 feet, Terr. Yuruani, Venezuela.)

Chloronerpes rubiginosus roraimae Penard, Proc. New England Zoöl. Cl., **7**, 1919, p. 29. (Mt. Roraima, 3500 feet.)

Mountains of southern and eastern Venezuela: Mt. Duida, Mt. Auyan-tepui (lower slopes), Mt. Roraima; British Guiana.

Piculus rubiginosus viridissimus Chapman

Piculus rubiginosus viridissimus Chapman, Am. Mus. Novit., no. 1051, 1939, p. 8. (Mt. Auyan-tepui plateau, 2200 meters, Venezuela.)

Confined to the upper slopes of Mt. Auyan-tepui, Venezuela.

Piculus rubiginosus nigriceps Blake

Piculus rubiginosus nigriceps Blake, Field Mus. Nat. Hist., Zool. Ser., **24**, 1941, p. 230. (Boundary Camp, 2200 feet, head of Itabu Creek, Acary Mountains, British Guiana.)

Known only from the type locality in extreme southern British Guiana.

Piculus rubiginosus trinitatis (Ridgway)

Chloronerpes rubiginosus trinitatis Ridgway, Proc. Biol. Soc. Washington, **24**, 1911, p. 32. (Princestown, Trinidad.)

Island of Trinidad.

Piculus rubiginosus tobagensis (Ridgway)

Chloronerpes rubiginosus tobagensis Ridgway, Proc. Biol. Soc. Washington, **24**, 1911, p. 33. (Tobago.)

Island of Tobago.

Piculus rubiginosus gularis (Hargitt)

Chloronerpes gularis Hargitt, Ibis, 1889, p. 230. (Santa Elena, Antioquia, Colombia.)

Subtropical zone of the Central Andes of Colombia.

Piculus rubiginosus pacificus deSchauensee

Piculus rubiginosus pacificus deSchauensee, Notulae Naturae, no. 141, 1944, p. 1. (Munchique, 5700 feet, Western Andes of Colombia.)

Colombia in the southern portion of the Western Andes and in the upper Cauca Valley.

Piculus rubiginosus rubripileus (Salvadori and Festa)

Chyoronerpes [sic] *rubripileus* Salvadori and Festa, Boll. Mus. Zool. Anat. Comp. Torino, **15**, 1900, no. 368, p. 14. (Río Peripa, Vinces, Ecuador.)

Tropical zone of extreme southwestern Colombia, western Ecuador and northwestern Perú.

Piculus rubiginosus coloratus (Chapman)

Chloronerpes rubiginosus coloratus Chapman, Am. Mus. Novit., no. 96, 1923, p. 8. (Chaupe, 6100 feet, northeast of Huancabamba, Perú.)

Subtropical zone of north-central Perú.

Piculus rubiginosus chrysogaster (Berlepsch and Stolzmann)

Chloronerpes chrysogaster Berlepsch and Stolzmann, Proc. Zool. Soc. London, 1902, vol. 2, p. 32. (La Garita del Sol, central Perú.)

Subtropical zone of central Perú.

Piculus rubiginosus canipileus (d'Orbigny)

Picus canipileus d'Orbigny, Vol. Am. Mérid., Ois., livr. 51, 1840, pl. 63, f. 2; livr. 89, 1847, p. 379. (Chupé, Yungas, Bolivia.)

Northern Bolivia in departments of La Paz and Cochabamba.

Piculus rubiginosus tucumanus (Cabanis)

Chloronerpes tucumanus Cabanis, Journ. f. Orn., 31, 1883, p. 103. (Tucumán.)

Central Bolivia south to northwestern Argentina in provinces of Jujuy, Salta and Tucumán.

Piculus simplex allophyeus (Bangs)

Chloronerpes simplex allophyeus Bangs, Bull. Mus. Comp. Zoöl., 39, 1903, p. 145. (Yaruca, 1000 feet, Honduras.)

Known only from the unique type.

Piculus simplex simplex (Salvin)

Chloronerpes simplex Salvin, Proc. Zool. Soc. London, 1870, p. 212. (Bugaba, Chiriquí.)

Chloronerpes simplex auroræ Griscom, Am. Mus. Novit., no. 293, 1928, p. 3. (Almirante, Bocas del Toro, Panamá.)

Central America from Nicaragua to western Panamá.

Piculus flavigula flavigula (Boddaert)

Picus flavigula Boddaert, Table Pl. enlum., 1783, p. 49. (Cayenne, *ex* Daubenton, Pl. enlum., pl. 784.)

Eastern Venezuela, the Guianas, eastern Ecuador, eastern Perú, and Brazil north of the Amazon and east of the Rio Negro.

Piculus flavigula magnus (Cherrie and Reichenberger)

Chloronerpes flavigula magnus Cherrie and Reichenberger, Am. Mus. Novit., no. 27, 1921, p. 4. (Monte Cristo, Mato Grosso.)

Southeastern Colombia and northwestern Brazil, eastward to the mouth of the Rio Negro, and south of the Amazon from the Juruá eastward, extending into northern Maranhão, south in Mato Grosso to the Juparaná.

Piculus flavigula erythropis (Vieillot)

Picus erythropis Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 98. (Brazil.)

Eastern and southeastern Brazil in states of Pernambuco, Baía, Espirito Santo, Goiáz, Minas Gerais, Rio de Janeiro and São Paulo.

Piculus leucolaemus callopterus (Lawrence)

Chloronerpes callopterus Lawrence, Ann. Lyc. Nat. Hist. New York, 7, 1862, p. 476. (New Grenada = Lion Hill, Canal Zone.)

Panamá from Veraguas to Darién.

Piculus leucolaemus litae (Rothschild)

Chloronerpes litæ Rothschild, Bull. Brit. Orn. Cl., 11, 1901, p. 70. (Lita, 3000 feet, Ecuador.)

Tropical zone of western Colombia and northwestern Ecuador.

Piculus leucolaemus leucolaemus (Natterer and Malherbe)

Picus leucolaemus Natterer and Malherbe, Mém. Soc. Roy. Sci. Liége, 2, 1845, p. 68. (Brazil.)

Chloronerpes leucolaemus australis Carriker, Proc. Acad. Nat. Sci. Philadelphia, 87, 1935, p. 318. (Santa Ana, 2200 feet, Río Coroico, La Paz, Bolivia.)

Eastern Colombia, eastern Ecuador, eastern Perú, western Brazil (Manacapurú and Rio Guaporé), and Bolivia in departments of La Paz, El Beni and Santa Cruz.

Piculus aurulentus (Temminck)

Picus aurulentus Temminck, Pl. col., livr. 10, 1823, pl. 59, f. 1. (Paraguay and Brazil.)

Southeastern Brazil in states of Minas Gerais, Rio de Janeiro, São Paulo, Paraná and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones; records of occurrence in Chaco and Formosa require confirmation.

Piculus chrysochloros aurosus (Nelson)

Chloronerpes chrysochlorus aurosus Nelson, Smiths. Misc. Coll., 60, 1912, no. 3, p. 3. (Marraganti, Panamá.)

Known only from the unique type.

Piculus chrysochloros xanthochlorus (Sclater and Salvin)

Chloronerpes xanthochlorus Sclater and Salvin, Proc. Zool. Soc. London, 1875, p. 237. (San Cristóbal, Táchira, Venezuela.)

Northeastern Colombia, and northwestern Venezuela in the Lake Maracaibo region and the coasts of Falcón.

Piculus chrysochloros capistratus (Malherbe)

Chloropicus capistratus Malherbe, Monogr. Picidées, 2, 1862, p.

140; 4, pl. 83, figs. 4, 5 and 6. (Brazil, *ex* Natterer MS.; restricted type locality, Rio Negro, Hellmayr, Nov. Zool., 17, 1910, p. 381, note.)

Known from Colombia east of the Eastern Andes, eastern Perú (Sarayacu), northwestern Brazil in the Rio Negro region and the Rupununi River, British Guiana.

Piculus chrysochloros guianensis Todd

Piculus chrysochloros guianensis Todd, Ann. Carnegie Mus., 25, 1937, p. 248. (Pied Saut, Oyapock River, French Guiana.)

French Guiana: Oyapock River.

Piculus chrysochloros laemostictus Todd

Piculus chrysochloros læmostictus Todd, Ann. Carnegie Mus., 25, 1937, p. 249. (São Paulo de Olivença, Rio Solimões, Brazil.)

Western Brazil south of the Amazon east to the upper Rio Purús.

Piculus chrysochloros hypochryseus Todd

Piculus chrysochloros hypochryseus Todd, Ann. Carnegie Mus., 25, 1937, p. 250. (Arimã, Rio Purús, Brazil.)

Brazil south of the Amazon from the Purús eastward to the Tapajóz, and northern Bolivia in Department of El Beni.

Piculus chrysochloros paraensis (Snethlage)

Chloronerpes paraensis E. Snethlage, Orn. Monatsb., 15, 1907, p. 163. (Murutucú, near Belém.)

Northeastern Brazil from east of the Tapajóz to northern Maranhão.

Piculus chrysochloros polyzonus (Valenciennes)

Picus polyzonus Valenciennes, Dict. Sci. Nat., éd. Levrault, 40, 1826, p. 170. (Brazil.)

Southeastern Brazil in states of Espirito Santo and Rio de Janeiro.

Piculus chrysochloros chrysochloros (Vieillot)

Picus chrysochloros Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 98. (Paraguay and Brazil.)

Picus Braziliensis Swainson, Zool. Illustr., 1, 1820–21 (1821), pl. 20. (interior of the State of Baía, Brazil.)

Eastern and interior Brazil in states of Piauí, Ceará, Baía, Minas Gerais and Mato Grosso; Bolivia; Paraguay; northern Argentina in provinces of Jujuy, Salta, Formosa and Chaco.

GENUS **CAMPETHERA** G. R. GRAY [1]

Dendromus Swainson, Classif. Bds., **2**, 1837, p. 307. Type, by subsequent designation, *D. brachyrhynchus* Swains. = *Picus maculosus* Valenciennes (G. R. Gray, List Gen. Bds., 1840, p. 54.) Not *Dendromus* Swainson, 1829, Mammalia.

Campethera G. R. Gray, List Gen. Bds., 1841, p. 70. Type, by original designation, *C. brachyrhyncha* (Swains.) = *Dendromus brachyrhynchus* Swainson = *Picus maculosus* Valenciennes.

Chrysoptilopicus Malherbe, Rev. Zool., 1845, p. 403. Type, by monotypy, *Picus (Chrysoptilopicus) smithii* Malherbe.

Notopicus Roberts, Ann. Transvaal Mus., **8**, 1922, p. 222. Type, by original designation and monotypy, *Picus notatus* Lichtenstein.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 426–440.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 563–578.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 474–481.

Friedmann and Loveridge, Bull. Mus. Comp. Zoöl., **81**, 1937, p. 189–193.

Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., **59**, 1939, p. 51–52; **60**, 1939, p. 17–18 (races of *abingoni*.)

Campethera punctuligera punctuligera (Wagler)

Picus punctuligerus Wagler, Syst. Av., 1827, Picus, sp. 36. (Senegambia.)

Campothera punctuligera riggenbachi Grote, Journ. f. Orn., **71**, 1923, p. 369. (Sangere-Kodjoie, Adamawa.)

West Africa from Senegal to Lake Chad and the Ubangi-Shari, south to the Gold Coast interior and the Niger Delta.

Campethera punctuligera batesi (Bannerman)

Campothera batesi Bannerman, Bull. Brit. Orn. Cl., **43**, 1923, p. 143. (North of Ngaundere, 2500 feet, Cameroons.)

Confined to eastern Cameroons, south of the steppe country and north of the forest.

Campethera punctuligera balia (Heuglin)

Picus balius Heuglin, Orn. Nord-Ost Afr., **1**, Abth. 2, 1871, p. 810. (Djur and Bongo, upper Bahr el Ghazal.)

Dendromus hargitti Sharpe, Ibis, 1902, p. 638. (Semmio [now Zémio], Niam Niam country.)

[1] Replaces *Campothera* G. R. Gray of Sharpe's Hand-list (emendation).

Region south of Lake Chad and the great bend of the Ubangi east to the Bahr el Ghazal and the upper Uelle district.

Campethera nubica nubica (Boddaert)

Picus Nubicus Boddaert, Table Pl. enlum., 1783, p. 41. (Nubia, based on Daubenton, Pl. enlum, pl. 667.)

Dendromus neumanni Reichenow, Orn. Monatsb., **4**, 1896, p. 132. (Lake Naivasha, Kenya Colony.)

Dendromus niger Neumann, Orn. Monatsb., **10**, 1902, p. 9. (Buka Mts., Ethiopia.)

Darfur, the Sudan, and Ethiopia, south to northern Kivu, Uganda and south-central Tanganyika Territory (Iringa); replaced by the next form in the East African coastal region.

Campethera nubica pallida (Sharpe)

Dendromus pallidus Sharpe, Ibis, 1902, p. 638 (Lamu, Kenya Colony.)

Coastal region of East Africa from Gallaland and Somaliland to eastern Tanganyika Territory (Mpwapwa, Kilosa, Morogoro).

Campethera nubica scriptoricauda (Reichenow)

Dendromus scriptoricauda Reichenow, Orn. Monatsb., **4**, 1896, p. 131. (No locality, the type in the Berlin Museum is from Bumi, Tanganyika, Territory.)[1]

Dendromus albifacies Gunning and Roberts, Ann. Transvaal Mus., **3**, 1911, p. 112. (Villa Pereira, Boror, Mozambique.)

Dendromus aureicuspis Reichenow, Orn. Monatsb., **23**, 1915, p. 26. (Usagara, Tanganyika Territory.)

Tanganyika Territory (Kilosa, Morogoro) south to Nyasaland and Mozambique.

Campethera bennettii uniamwesica (Neumann)

Dendromus bennettii uniamwesicus Neumann, Orn. Monatsb., **16**, 1908, p. 27. (Kakoma, Tanganyika Territory.)

Vicinity of Lake Victoria across western Tanganyika Territory and the southeastern Congo to northern Angola and Northern Rhodesia.

Campethera bennettii bennettii (A. Smith)

Chrysoptilus Bennettii A. Smith, Report Exped. Centr. Afr., 1836, p. 53. ("Country about and beyond Kurrichaine" = western Transvaal.)

Southern Rhodesia to Zululand and the Transvaal.

[1] Grant and Mackworth-Praed (Bull. Brit. Orn. Cl., **58**, 1938, p. 146-147) believe that the record from Lamu, Kenya Colony, is an error brought about by the relabelling of Kirk's collection and destruction of the original labels.

Campethera bennettii capricorni Strickland

Campethera capricorni Strickland, in Jardine's Contr. Orn. for 1852, 1853, p. 155. (Damaraland.)

Southern Angola, Damaraland and the central Kalahari.

Campethera cailliautii nyansae (Neumann)

Dendromus malherbei nyansae Neumann, Journ. f. Orn., **48**, 1900, p. 204. (Mwanza, Tanganyika Territory.)

Regions about the western and southern shores of Lake Victoria, and probably the Kivu district.

Campethera cailliautii cailliautii (Malherbe)

Chrysopicos Cailliautii Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 540. (Africa; Mombasa designated by C. H. B. Grant, Ibis, 1915, p. 454, 455.)

Chrysopicus Malherbei Cassin, Proc. Acad. Nat. Sci. Philadelphia, July, 1863, p. 198 (Zanzibar.); *idem* Journ. Acad. Nat. Sci. Philadelphia, **5**, Nov., 1863, p. 459, pl. 51, f. 3.

Campethera loveridgei Hartert, Bull. Brit. Orn. Cl., **40**, 1920, p. 139. (Morogoro, Tanganyika Territory.)

Coasts of East Africa from the Tana River to Dar es Salaam; Zanzibar Island.

Campethera cailliautii fülleborni (Neumann)

Dendromus malherbei fülleborni Neumann, Journ. f. Orn., **48**, 1900, p. 204. (Langenburg, northeast of Lake Nyasa.)

The Katanga and northern end of Lake Tanganyika, south to Northern Rhodesia, Nyasaland and the Beira district of Mozambique.

Campethera notata (Lichtenstein)

Picus notatus H. Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 11. ("Terra Caffrorum".)

Wooded portions of southern and eastern Cape Province and adjacent parts of Natal.

Campethera abingoni chrysura (Swainson)

Dendromus chrysurus Swainson, Bds. W. Afr., **2**, 1837, p. 158. (West Africa.)

Thorn scrub savanna from Senegal east to the Bahr el Ghazal and the upper Uelle.

Campethera abingoni tessmanni (Reichenow)

Dendromus chrysurus tessmanni Reichenow, Journ. f. Orn., **69**, 1921, p. 47. (Eastern savanna of Cameroons.)

Eastern savanna country of Cameroons.

Campethera abingoni annectens (Neumann)

Dendromus abingoni annectens Neumann, Bull. Brit. Orn. Cl., **21**, 1908, p. 95. (Sambo, Benguella.)

Gaboon eastward to the Kivu district and south to Benguella and Nyasaland; absent from the forested areas.

Campethera abingoni kavirondensis (van Someren)

Campothera abingdoni kavirondensis van Someren, Bull. Brit. Orn. Cl., **47**, 1926, p. 70. (Lolgorien, South Kavirondo.)

Southwestern Kenya Colony to south-central Tanganyika Territory.

Campethera abingoni mombassica (Fischer and Reichenow)

Picus (*Campothera*) *mombassicus* Fischer and Reichenow, Journ. f. Orn., **32**, 1884, p. 262. (Mombasa.)

Coast of East Africa from the Juba River south to the Usambara Mts.

Campethera abingoni suahelica (Reichenow)

Dendromus chrysurus suahelicus Reichenow, Vög. Afr., **2**, 1902, p. 175. (Tanganyika Territory.)

Inland parts of Tanganyika Territory (between the ranges of *kavirondensis* and *mombassica*) and extending to the coast in the southeast.

Campethera abingoni abingoni (A. Smith)

Chrysoptilus Abingoni[1] A. Smith, Report Exped. Centr. Afr., 1836, p. 53. (Port Natal, *i.e.* Durban, Natal.)

Nyasaland and Mozambique, southward through eastern Southern Rhodesia and the eastern Transvaal to Natal.

Campethera abingoni smithii (Malherbe)

Picus (*Chrysoptilopicus*) *Smithii* Malherbe, Rev. Zool., 1845, p. 403. (South Africa.)

Western Southern Rhodesia south to Bechuanaland and western Transvaal.

Campethera abingoni anderssoni (Roberts)

Chrysoptilopicus abingoni anderssoni Roberts, Ann. Transvaal Mus., **18**, 1936, p. 255. (Windhoek, South-West Africa.)

South Africa west of the Kalahari Desert.

Campethera taeniolaema taeniolaema (Reichenow and Neumann)

Campothera taeniolaema Reichenow and Neumann, Orn.

[1] Sometimes misspelled *abingdoni* or *abingtoni*.

Monatsb., 3, 1895, p. 73. (Guasso-Massai and Eldoma Station, Kenya Colony.)

Forested highlands of Kenya Colony west of the Rift Valley and extending to Toro and the Kivu district.

?Campethera taeniolaema barakae (Van Someren)

Campothera teniolæma barakæ Van Someren, Bull. Brit. Orn. Cl., 40, 1920, p. 96. (Baraka, Lake Tanganyika.)

Mountains northwest of Lake Tanganyika; doubtfully distinct from *C. t. taeniolaema.*

Campethera taeniolaema hausburgi (Sharpe)

Campothera hausburgi Sharpe, Bull. Brit. Orn. Cl., 10, 1900, p. xxxvi. (Mt. Kenya.)

Forested highlands of Kenya Colony east of the Rift Valley, eastward to the Meru and Nairobi districts.

Campethera tullbergi tullbergi (Sjöstedt)

Campothera Tullbergi Sjöstedt, Journ. f. Orn., 40, 1892, p. 313. (Itoki Na N'Golo, Cameroons.)

Cameroon Mt.

Campethera tullbergi bansoensis Bates

Campethera tullbergi bansoensis Bates, Bull. Brit. Orn. Cl., 46, 1926, p. 93. (Banso Mts., north of Kumbo, Cameroons.)

Banso Mts. (except Oku district), Nigeria-Cameroons border.

Campethera tullbergi wellsi Bates

Campethera wellsi Bates, Bull. Brit. Orn. Cl., 46, 1926, p. 92. (Oku, west of Kumbo, Cameroons.)

Oku district of the Banso Mts.

Campethera maculosa (Valenciennes)

Picus maculosus Valenciennes, Dict. Sci. Nat., éd. Levrault, 40, 1826, p. 173. (Senegal.)

Portuguese Guinea, Sierra Leone, Liberia and Gold Coast.

Campethera permista togoensis (Neumann)

Dendromus permistus togoensis Neumann, Journ. f. Orn., 52, 1904, p. 393. (Misa Highlands, Togoland.)

Gold Coast, Togoland and Southern Nigeria.

Campethera permista permista (Reichenow)

Picus (Campothera) permistus Reichenow, Journ. f. Orn., 24, 1876, p. 97. (Gold Coast, Cameroons and Gaboon = Gaboon *ex* Malherbe, Monogr. Picidées, 2, 1862, p. 152.)

Dendromus permistus angolensis Neumann, Journ. f. Orn., **52**, 1904, p. 393. (Angola.)

Cameroons south to northern Angola and eastward across the Lower Guinea forest to the Semliki Valley.

Campethera permista kaffensis (Neumann)

Dendromus permistus kaffensis Neumann, Orn. Monatsb., **10**, 1902, p. 9. (Dalba, Konta, Kaffa Province, Ethiopia.)

Southwestern Ethiopia.

Campethera caroli arizela (Oberholser)

Dendromus caroli arizelus Oberholser, Proc. U.S. Nat. Mus., **22**, 1899, p. 29. (Mt. Coffee, Liberia.)

Liberia.

Campethera caroli caroli (Malherbe)

Chloropicus Caroli Malherbe, Rev. et Mag. Zool. (2), **4**, 1852, p. 550. (Gaboon.)

Dendromus kasaicus Dubois, Rev. Franç. d' Orn., **2**, 1911, p. 17. (Kasai district, Belgian Congo.)

Lower Guinea forest, reaching the forest patches of Gold Coast and northern Angola and extending into the gallery forests of the Uelle and the Kasai.

Campethera caroli budongoensis (Van Someren)

Campothera caroli budongoensis Van Someren, Bull. Brit. Orn. Cl., **41**, 1921, p. 105. (Bugoma Forest, Uganda.)

Forests of Uganda and western Kenya Colony (Mt. Elgon).

Campethera nivosa nivosa (Swainson)

Dendromus nivosus Swainson, Bds. W. Afr., **2**, 1837, p. 162. (West Africa.)

Casamance and Portuguese Guinea to the Gold Coast and perhaps Southern Nigeria.

Campethera nivosa poensis (Alexander)

Campothera poensis B. Alexander, Bull. Brit. Orn. Cl., **13**, 1903, p. 33. (Besoso, Fernando Po.)

Confined to the Island of Fernando Po.

Campethera nivosa efulenensis (Chubb)

Dendromus efulenensis Chubb, Bull. Brit. Orn. Cl., **21**, 1908, p. 92. (Efulen district, Cameroons.)

Forested areas of Cameroons to the forests of northern Angola.

Campethera nivosa herberti (Alexander)

Dendromus herberti B. Alexander, Bull. Brit. Orn. Cl., **21**, 1908,

p. 89. (Bwande, Ubangi River ♂, and Bugoma Forest, Unyoro ♀.)

Middle Congo and Ubangi Rivers eastward to the Budongo and Mabira forests in Uganda.

Campethera nivosa yalensis Bowen

Campethera nivosa yalensis Bowen, Proc. Acad. Nat. Sci. Philadelphia, **83**, 1931, p. 451. (Yala River, Kavirondo district, Kenya Colony.)

Kavirondo and Nandi districts of Kenya Colony.

Genus **CELEUS** Boie

Celeus Boie, Isis von Oken, 1831, col. 542. Type, by subsequent designation, *C. flavescens* (Gm.) = *Picus flavescens* Gmelin. (G. R. Gray, List Gen. Bds., 1840. p. 55.)

Cerchneipicus Bonaparte, Ateneo Italiano, **2**, 1854, p. 123. (Consp. Vol. Zygodact., p. 9.) Type, by subsequent designation, *Picus tinnunculus* Wagler. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 93.)

Cerchneopipo Sundevall, Consp. Av. Picinarum, 1866, p. 116. Emendation.

Crocomorphus Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. xiv, 6 (in key), 439. Type, by original designation, *C. flavus* = *Picus flavus* Müller.

cf. Cory, Field Mus. Nat. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 448–457.

Naumburg, Bull. Am. Mus. Nat. Hist., **60**, 1930, p. 181–184.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 344–350.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 138–146.

Celeus flavescens ochraceus (Spix)

Picus ochraceus Spix, Av. Bras., **1**, 1824, p. 59, pl. 51, f.1 ("in sylvis Amazonum".)

Eastern Brazil in states of Pará, Maranhão, Piauí, Ceará, Pernambuco and northwestern Baía.

Celeus flavescens intercedens Hellmayr

Celeus flavescens intercedens Hellmayr, Nov. Zool., **15**, 1908, p. 82. (Fazenda Esperança, Goiáz.)

Brazil in states of Goiáz and northeastern Baía.

Celeus flavescens flavescens (Gmelin)

Picus flavescens Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 427. (Brazil; restricted to Rio de Janeiro by Cory, *antea*, p. 448.)

Southeastern Brazil from southeastern Mato Grosso, Minas Gerais and southern Baía south to eastern Paraguay (Río Alto Paraná) and Rio Grande do Sul.

Celeus flavescens lugubris (Malherbe)

Celeopicus lugubris Malherbe, Bull. Soc. Hist. Nat. Dépt. Moselle, 6e cahier, 1851, p. 77. (Brazil; Mato Grosso designated as type locality by Naumburg, *antea,* p. 181.) [1]

Bolivian Chaco.

Celeus flavescens roosevelti Cherrie

Celeus roosevelti Cherrie, Bull. Am. Mus. Nat. Hist., **35**, 1916, p. 183. (Tapirapoan, Mato Grosso.)

Extreme southeastern Bolivia (Puerto Suárez) and western Mato Grosso from Tapirapoan south to Corumbá and Miranda.

Celeus flavescens kerri Hargitt

Celeus kerri Hargitt, Ibis, 1891, p. 605. (Rio Pilcomayo; type from Fortín Donovan.) Col. pl., Ibis, 1892, pl. 3.

Extreme southwestern Mato Grosso (Pan de Azucar), western Paraguay (Río Paraguay drainage) and northern Argentina in territories of Formosa and Chaco.

Celeus spectabilis spectabilis Sclater and Salvin

Celeus spectabilis Sclater and Salvin, Proc. Zool. Soc. London, 1880, p. 161. (Sarayacu, Ecuador.)

Eastern Ecuador.

Celeus spectabilis exsul Bond and deSchauensee

Celeus spectabilis exsul Bond and deSchauensee, Notulae Naturae, no. 93, 1941, p. 4. (Todos Santos, 1000 feet, Río Chaparé, Cochabamba, Bolivia.)

Bolivia in depts. of El Beni and Cochabamba.

Celeus castaneus (Wagler)

Picus castaneus Wagler, Isis von Oken, **22**, 1829, col. 515. (No locality; Veracruz, México, designated by Cory, *antea,* p. 453, note d.)

Southeastern México southward over Central America in the humid tropical zone to northwestern Costa Rica on the west and to the Chiriquí Lagoon, Panamá, on the east.

[1] Todd, Ann. Carnegie Mus., **30**, 1946, p. 305, restricts the name to fig. 1 of pl. 54 of Malherbe's Monogr. Picidées which fits the race of the bird of the Bolivian Chaco and in turn deprives the bird of western Mato Grosso of a name, to supply which he resurrects *Celeus roosevelti.*

Celeus immaculatus Berlepsch

Celeus immaculatus Berlepsch, Ibis, 1880, p. 113. (Agua Dulce, Panamá.) [1]

Known only from the unique type; its exact source is doubtful.

Celeus elegans hellmayri Berlepsch

Celeus elegans hellmayri Berlepsch, Nov. Zool., **15**, 1908, p. 272. (British Guiana; Cory *antea,* p. 450, note d. suggests Cumacusa, Mazaruni River.)

Eastern Venezuela, British Guiana and Surinam.

Celeus elegans léotaudi Hellmayr

Celeus elegans léotaudi Hellmayr, Nov. Zool., **13**, 1906, p. 39. (Valencia, Trinidad.)

Island of Trinidad.

Celeus elegans approximans Cory

Celeus elegans approximans Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 450 and note a, pl. 2, fig. 2. (Base of Serra da Lua, near Boa Vista, Rio Branco, Brazil.)

Upper Rio Branco region of Brazil and probably the adjacent parts of British Guiana.

Celeus elegans elegans (P.L.S. Müller)

Picus elegans P.L.S. Müller, Natursyst., Suppl., 1776, p. 92. (Cayenne.)

Celeopicus reichenbachi Malherbe, Monogr. Picidées, **2**, 1862, p. 28; **4**, pl. 56, figs. 4, 5. (Brazil and Colombia.)

Cayenne and adjacent parts of Brazil south to the Amazon at Obidos; recorded also from the Tapajóz, *fide* Pinto, *antea,* p. 346.

Celeus jumana citreopygius Sclater and Salvin

Celeus citreopygius Sclater and Salvin, Proc. Zool. Soc. London, 1867, p. 758. (Yurimaguas, Perú.)

Southeastern Colombia, eastern Ecuador and eastern Perú.

Celeus jumana jumana (Spix) [2]

Picus jumana Spix, Av. Bras., **1**, 1824, p. 57, pl. 47. ("in Sylvis fl. Amazonum".)

[1] The original specimen was named from a trade-skin which its describer believed to be in the Agua Dulce "make"; nearly seventy years have elapsed since its discovery and the type remains unique. It is evidently closely allied to the *Celeus elegans* group, but in its unbarred inner surface of the primaries shows an approach to *castaneus.*

[2] *Celeus jumana* is very close to *C. e. elegans* and would certainly be regarded as a subspecies of it did the two not occur at or near the same places at certain points in their ranges.

Extreme eastern Colombia (Maipures), southern Venezuela, valley of the Rio Negro and the Amazon Valley in Brazil from the Solimões to Manacapurú on the north, and from the Juruá to the Tocantins on the south, thence extending eastward into Maranhão.

?Celeus jumana saturatus Carriker

Celeus jumana saturata [sic] Carriker, Proc. Acad. Nat. Sci. Philadelphia, **87**, 1935, p. 318. (Chatarona, near Reyes, Beni, Bolivia.)

Northern Bolivia on the lower Río Beni; very doubtfully distinct from *C. j. jumana.*

Celeus grammicus verreauxii (Malherbe)

Celeopicus Verreauxii Malherbe, Rev. et Mag. Zool. (2), **10**, 1858, p. 8. (Ecuador.)

Southeastern Colombia and eastern Ecuador.

Celeus grammicus grammicus (Natterer and Malherbe)

Picus grammicus Natterer and Malherbe, Mém. Soc. Roy. Sci. Liége, **2**, 1845, p. 69. (Brazil; Marabitanas, upper Rio Negro, designated by Naumburg, *antea,* p. 183.)

Southern Venezuela, western Brazil and northeastern Perú, east to the Rio Negro on the north and to the Purús on the south.

Celeus grammicus undulatus Todd

Celeus grammicus undulatus Todd, Ann. Carnegie Mus., **25**, 1937, p. 252. (Río Mocho, Río Caura, Venezuela.)

Known only from the type locality.

Celeus grammicus subcervinus Todd

Celeus grammicus subcervinus Todd, Ann. Carnegie Mus., **25**, 1937, p. 252. (Villa Braga, Rio Tapajóz, Brazil.)

South bank of the Amazon from the lower Purús to the Tapajóz (both banks).

Celeus grammicus latifasciatus Seilern

Celeus grammicus latifasciatus Seilern, Ann. Naturhist. Hofmus. Wien, **47**, 1936, p. 36. (Yahuarmayo, 1200 feet, Sierra de Carabaya, Perú.)

Southeastern Perú, and northeastern Bolivia on the Río Beni.

Celeus loricatus diversus Ridgway

Celeus loricatus diversus Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 140 (in key), p. 145. (Caribbean lowlands of Costa Rica; type from Talamanca, *fide* Cory, *antea,* p. 453.)

Lowlands of southeastern Costa Rica and adjacent parts of western Panamá.

Celeus loricatus mentalis Cassin

Celeus mentalis Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1860, p. 137. (Turbo, Colombia.)

Panamá from the Canal Zone eastward, and extreme northwestern Colombia.

Celeus loricatus innotatus Todd

Celeus innotatus Todd, Proc. Biol. Soc. Washington, **30**, 1917, p. 5. (Jaraquiel, Bolívar, Colombia.)

Northern Colombia in the Río Sinu region and the lower Magdalena valley.

Celeus loricatus degener Todd

Celeus innotatus degener Todd, Proc. Biol. Soc. Washington, **32**, 1919, p. 116. (El Tambor, Santander, Colombia.)

Colombia in Dept. of Santander (Lebrija Valley).

Celeus loricatus loricatus (Reichenbach)

Meiglyptes loricatus Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 405, pl. DCLXXXI, figs, 4495, 4496. (Perú.)

Tropical zone of the Pacific coast of South America from the middle Atrato valley in Colombia to western Ecuador; northwestern Perú?

Celeus undatus undatus (Linné)

Picus undatus Linné, Syst. Nat., ed. 12, 1, 1766, p. 175. (Surinam.)

The Guianas and northern Brazil.

Celeus undatus multifasciatus (Natterer and Malherbe)

Picus multifasciatus Natterer and Malherbe, Mém. Soc. Roy. Sci. Liége, 2, 1845, p. 69. (Brazil.)

The Pará region in northeastern Brazil.

Celeus flavus flavus (P.L.S. Müller)

Picus flavus P.L.S. Müller, Natursyst., Suppl., 1776, p. 91. (Cayenne.)

Celeus semicinnamomeus Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 407, pl. DCLXI, f. 4386. (South America.)

Colombia from the eastern base of the Andes (Buenavista, Villavicencio) and the eastern llanos, southern and eastern Venezuela, the Guianas and perhaps Brazilian Guiana.

Celeus flavus peruvianus (Cory)

Crocomorphus flavus peruvianus Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 457. (Lagunas, lower Huallaga River, Perú.)

Eastern Perú, western Brazil east to the left bank of the Purús, and northern Bolivia on the left bank of the lower Beni and at the mouth of the Chaparé.

Celeus flavus inornatus (Cherrie)

Crocomorphus flavus inornata [sic] Cherrie, Bull. Am. Mus. Nat. Hist., 35, 1916, p. 395. (Santarem, Rio Tapajóz, Brazil.)

Amazonian Brazil from the Rio Negro, the right bank of the Purús and the right bank of the lower Beni (Bolivian territory) eastward to the Pará region.

Celeus flavus tectricialis (Hellmayr)

Crocomorphus flavus tectricialis Hellmayr, Anz. Orn. Ges. Bayern, no. 6, 1922, p. 46. (Boa Vista, Maranhão, Brazil.)

Northeastern Brazil in states of Maranhão and Piauí.

Celeus flavus subflavus Sclater and Salvin

Celeus subflavus Sclater and Salvin, Proc. Zool. Soc. London, 1877, p. 21. (Baía.)

Eastern Brazil in states of Baía and Espirito Santo.

Celeus torquatus torquatus (Boddaert)

Picus torquatus Boddaert, Table Pl. enlum., 1783, p. 52. (Cayenne, *ex* Daubenton, pl. 863.)

Eastern Venezuela, the Guianas and northern Brazil (Serra de Lua, Rio Branco, Obidos).

Celeus torquatus occidentalis (Hargitt)

Cerchneipicus occidentalis Hargitt, Ibis, 1889, p. 230. (Upper Ucayali, Perú ♂ ; Brazil ♀.) Col. pl., Cat. Bds. Brit. Mus., 18, pl. 11.

Eastern Perú, Brazil east to the Purús and in western Mato Grosso; Bolivia, one record (Buenavista).

Celeus torquatus angustus (Griscom and Greenway)

Cerchneipicus tinnunculus angustus Griscom and Greenway, Bull. Mus. Comp. Zoöl., 81, 1937, p. 432. (Caxiricatuba, right bank of the Rio Tapajóz, Brazil.)

Amazonian Brazil, where known only from the Rio Tapajóz, but probably extending west to the Rio Madeira.

Celeus torquatus tinnunculus (Wagler)

Picus Tinnunculus Wagler, Isis von Oken, **22**, 1829, col. 516. (Brazil.)

Eastern Brazil in State of Baía.

Genus **MICROPTERNUS** Blyth

Micropternus Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, 1845, p. 194. Type, by original designation, *Picus badius* Raffles.

cf. Stuart Baker, Ibis, 1919, p. 197–204.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 148.

Delacour and Jabouille, Ois. Indochine Franç., **2**, 1931, p. 223–225.

Robinson, Ibis, 1919, p. 179–181.

Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., **37**, 1934, p. 290–292.

Micropternus brachyurus humei Kloss

Micropternus brachyurus humei Kloss, Ibis, 1918, p. 109. ("Kumaon, Bhabur, northern Rohilkund, the Dhoon, etc." *ex* Hume, Proc. As Soc. Bengal, 1872, p. 70.)

Northwestern Himalayas.

Micropternus brachyurus phaioceps (Blyth)

Picus (*micropternus*) *gularis* Jerdon, Madras Journ. Lit. Sci., **13**, 1844, pt. 2, p. 139. (South India.) Not *Picus gularis* Wagler, 1827.

Picus (*Micropternus*) *phaioceps* Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, 1845, p. 195. ("India proper extending eastward to Tipperah and Arracan"; restricted type locality, Calcutta.)

Micropternus brachyurus williamsoni Kloss, Ibis, 1918, p. 107. (Koh Lak, southwestern Siam.)

Micropternus brachyurus mesos Kloss, Ibis, 1918, p. 108. (Cuttack, Calcutta and Bengal.)

Nepal and Assam south to northeastern part of the Indian Peninsula (the Balaghat and Anantagiri), all of Burma, the Shan States and Siam. The record of *M. b. fokiensis* from Tengyueh, Yunnan is doubtless to be referred here.

Micropternus brachyurus jerdonii (Malherbe)

Phaiopicos Jerdonii Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 535. (Indian Peninsula; restricted to Travancore by Whistler and Kinnear, *antea*, p. 291.)

Micropternus brachyurus lanka Kloss, Ibis, 1918, p. 108. (Ceylon.)

Western side of the Indian Peninsula, extending into the Shevaroy Hills; Ceylon.

Micropternus brachyurus annamensis Delacour and Jabouille

Micropternus brachyurus annamensis Delacour and Jabouille, Bull. Brit. Orn. Cl., **45**, 1924, p. 31. (Haïling, Annam.)

Laos, central and southern Annam, Cambodia and Cochinchina.

Micropternus brachyurus fokiensis (Swinhoe)

Brachypternus fokiensis Swinhoe, Proc. Zool. Soc. London, 1863, p. 87. (Foochow, Fukien.)

Southeastern China in provinces of Fukien, Kwangtung and Kwangsi; Tonkin and northern Annam.

Micropternus brachyurus holroydi Swinhoe

Micropternus holroydi Swinhoe, Ibis, 1870, p. 95. (Central Hainan.)

Hainan.

Micropternus brachyurus squamigularis (Sundevall)

Picus squamigularis Sundevall, Consp. Av. Picinarum, 1866, p. 89. (Malacca.)

Malay Peninsula.

Micropternus brachyurus badius (Raffles)

Picus badius Raffles, Trans. Linn. Soc. London, **13**, pt. 2, 1822, p. 289. (Sumatra.)

Sumatra, Bangka, Mendanau, Billiton.

Micropternus brachyurus celaenephis Oberholser

Micropternus phaioceps celaenephis Oberholser, Smiths. Misc. Coll., **60**, 1912, no. 7, p. 6. (Lafau, Nias Island.)

Nias Island.

Micropternus brachyurus brachyurus (Vieillot)

Picus brachyurus Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 103. (Java.)

Colaptes ferrugineus Brehm, Allg. Deutsche Naturh. Zeitung, 1856, p. 464. (Java.)

Java (except eastern.)

Micropternus brachyurus badiosus (Bonaparte)

Meiglyptes badiosus Bonaparte, Consp. Av., **1**, 1850, p. 113. (Borneo.)

Borneo, North Natoena Islands.

Genus PICUS Linné

Picus Linné, Syst. Nat., ed. 10, 1, 1758, p. 112. Type, by subsequent designation, *Picus viridis* Linné. (Swainson, Zool. Illustr., 1, 1820, text to pl. 4.)

Gecinus Boie, Isis von Oken, 1831, col. 542. Type, by subsequent designation, *G. viridis* (L.) = *Picus viridis* Linné. (G. R. Gray, List Gen. Bds., 1840, p. 55.)

Brachylophus Swainson, Classif. Bds., 2, 1837, p. 308. Type, by subsequent designation, [*Picus*] *miniatus* [Forster] = *Picus mineaceus* Pennant. (Strickland, Ann. and Mag. Nat. Hist., 7, 1841, p. 38.)

Chrysophlegma Gould, Bds. Asia, pt. 1, 1850, pl. [6] and text [= 6, pl. 36 of volume.] Type, by monotypy, *Picus flavinucha* Gould.

Callolophus Salvadori, Ann. Mus. Civ. Genova, 5, 1874, p. 49. (= Uccelli di Borneo.) Type, by subsequent designation, *Picus malaccensis* Latham. (Blanford, Fauna Brit. India, Bds., 3, 1895, p. 29.)

Cirropicus Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 71. Type, by original designation, *Picus chlorolophus* Vieillot.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 6-27.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 140–143.

Danis, Ois. et Rev. Franç. d'Orn. (n.s.), 7, 1937, p. 246–271.

Deignan, Bull. U.S. Nat. Mus., no. 186, 1945, p. 229–238.

Delacour and Jabouille, Ois. Indochine Franç., 2, 1931, p. 194–206.

Greenway, Auk. 57, 1940, p. 550–560.

Hand-list Jap. Bds., 3d & rev. ed., 1942, p. 86–87.

Hartert, Vög. pal. Fauna, 2, 1912, p. 889-899; 3, 1922, p. 2183–2185.

Hartert and Steinbacher, Vög. pal Fauna, Ergänzungsb., Heft 4, 1935, p. 361–364.

Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 205–229.

La Touche, Handb. Bds. E. China, 2, 1931, p. 2–11.

Meinertzhagen, Bull. Brit. Orn. Cl., 44, 1924, p. 53–57.

Riley, Bull. U.S. Nat. Mus., no. 172, 1938, p. 210–222.

Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 70–82.

Witherby *et al,* Handb. Brit. Bds., 2, 1938, p. 277–281.

Picus viridis pluvius Hartert

Picus viridis pluvius Hartert, Brit. Bds., **5**, 1911, p. 125. (Ninfield, Sussex, England.)

England and Wales.

Picus viridis viridis Linné

Picus viridis Linné, Syst. Nat., ed. 10, **1**, 1758, p. 113. (Europe, = Sweden *ex* Fn. Suec.)

Scandinavian Peninsula north to the limit of trees in Norway and to lat. 63° N. in Sweden, Russia north to the line Leningrad-Kostroma-Kazan, east to the Volga and south to the gouvernments of Ekaterinoslav and Saratov.

?Picus viridis frondium (C. L. Brehm)

Gecinus pinetorum C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 197. (Spruce forests of Germany; type from Renthendorf.) Not *Picus pinetorum* Brehm, *t. c.* p. 187.

Gecinus frondium C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 197 (Deciduous forests [of Germany].)

Gecinus virescens C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 199. (In winter in the German spruce forests and gardens.)

Gecinus cuneirostris C. L. Brehm, Allg. Deutsche Naturh. Zeit., Neue Folge, **2**, 1856, p. 462. (Germany; type from Renthendorf.)

Picus viridis minor Fuchs, Orn. Monatschr., **40**, 1915, p. 287. (Baden.) [1] Not *Picus minor* Linné.

Picus viridis brehmi Kleinschmidt, Ornis Germanica, 1919 (Beil. zu Falco, **15**), p. 5. New name for *frondium*.

Picus viridis pulcher "Burg" Floericke, Orn. Beob., **24**, 1926, p. 19. (Bernese Oberland, 2000 meters.)

Greater part of central Europe east to Poland, south to France, Switzerland, and northern Yugoslavia.

Picus viridis pronus Hartert

Picus viridis pronus Hartert, Brit. Bds., **5**, 1911, p. 125. (Firenzola, near Florence, Italy.)

?Picus viridis helveticus Burg, Weidmann, 1921, no. 6, p. 7. (Jura.)

Southern Switzerland and Italy.

Picus viridis dofleini Stresemann

Picus viridis dofleini Stresemann, Anz. Orn. Ges. Bayern, no. 1, 1919, p. 5. (Izvor, Macedonia.)

[1] Aberration; specimen not collected.

Southeastern Europe from southern Yugoslavia and Bulgaria to Greece.

Picus viridis romaniae Stresemann

Picus viridis romaniae Stresemann, Anz. Orn. Ges. Bayern, no. 1, 1919, p. 5. (Bucharest, Romania.)

Romania.

Picus viridis sharpei (Saunders)

Gecinus sharpei Saunders, Proc. Zool. Soc. London, 1872, p. 153. (Spain, south of the Sierra de la Guadarrama.)

Gecinus viridis galliciensis Seoane, Aves nuevas de Galicia "1870" (1894) [1], p. 7. (Galicia.)

Picus sharpei levantinus Sagarra, Treb. Inst. Catalana Hist. Nat., 1, 1915, p. 182, pl. 3. (Catalonia.)

Picus sharpei levantinus aberr. *rhodopygia* Sagarra, Treb. Inst. Catalana Hist. Nat. 1, 1915, p. 183, pl. 12. (No locality.)

The Iberian Peninsula and extreme southwestern France.

Picus viridis saundersi (Taczanowski)

Gecinus Saundersi Taczanowski, Journ. f. Orn., 26, 1878, p. 349, 352. (Lagodechi, Caucasus.)

Caucasus.

Picus viridis karelini Brandt

Picus Karelini Brandt, Bull. Sci. Acad. Imp. Sci. St. Pétersbourg, 9, 1841, col. 12. (Astrabad, northern Iran.)

Northern Asia Minor (Ilgaz Mts.) and northern Iran.

Picus viridis innominatus (Sarudny and Loudon)

Gecinus viridis innominatus Sarudny and Loudon, Orn. Monatsb., 13, 1905, p. 49. (Gamdalkal, Iran.)

Oak forests of western and southwestern Iran.

Picus viridis bampurensis (Sarudny)

Gecinus viridis bampurensis Sarudny, Journ. f. Orn., 59, 1911, p. 240. (Sources of the Bampur River, Baluchistan.)

Poplar forests at the sources of the Bampur River, Baluchistan.

Picus vaillantii (Malherbe)

Chloropicus Vaillantii Malherbe, Mém. Acad. Roy. Metz, 28, 1846–47 (1847), p. 130. (Algeria.)

Picus algirus Levaillant jun., Expl. Sci. Algérie, Atlas Ois., pl. 8, *ca* 1849. (Algeria.)

[1] See Sherborn, Ann. and Mag. Nat. Hist. (6), 14, 1894, p. 154-155.

Gecinus vaillantii koenigi Erlanger, Journ. f. Orn., 47, 1899, p. 529, pl. 3. (Aïn-bou-Dries, southern slopes of the Atlas Mts., Tunisia.)

Forested portions of North Africa from Morocco to Tunisia.

Picus awokera awokera Temminck

Picus awokera Temminck, Pl. col., livr. 99, 1826, pl. 585. (Japan, *i.e.* Honshu.)

Picus awokera etigo Momiyama, Annot. Orn. Orient., 1, 1927, p. 56, Japanese text; p. 94, English text. (Sionomati-mura, Iwafuné-gun, Prov. Etigo, Hondo.)

Honshu.

Picus awokera horii Taka-Tsukasa

Picus awokera horii Taka-Tsukasa, Dobuts. Zasshi, 30, 1918, p. 442. (Kagoshima.) In Japanese.

Picus awokera tosa Momiyama, Annot. Orn. Orient., 1, 1927, p. 58, Japanese text; p. 95, English text. (Sagawa-mati, Takaoka-gun, Prov. Tosa, Shikoku.)

Shikoku and Kyushu.

Picus awokera takatsukasae Kuroda

Picus awokera takatsukasae Kuroda, Auk, 38, 1921, p. 576. (Anno, Tanegashima.)

Tanega Shima and Yaku Shima.

Picus squamatus flavirostris (Menzbier)

Gecinus flavirostris Menzbier, Bull. Soc. Imp. Nat. Moscou, 62, 1886, pt. 1, p. 439. (Murghab, Transcaspia.)[1]

Gecinus zarudnoi Menzbier, Ibis, 1887, p. 301. New name for *Gecinus flavirostris* Menzbier.

Transcaspia to Afghanistan and Baluchistan.

Picus squamatus squamatus Vigors

Picus squamatus Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31 (1831), p. 8. (Himalayas, restricted to Simla-Almora district by Ticehurst and Whistler, Ibis, 1924, p. 471.) [2]

The Himalayas from Kashmir and Gilgit to Sikkim.

[1] Replaces *Gecinus gorii* Hargitt, 1887, of Sharpe's Hand-list.

[2] In their paper in the Ibis, Ticehurst and Whistler make a blanket restriction of type locality to the Simla-Almora district of "all the Himalayan birds described by Vigors in the P.Z.S. 1830-31." It is very doubtful whether such a restriction could be made to apply to such species whose type locality had been otherwise fixed prior to the appearance of Ticehurst's and Whistler's article, and their failure themselves to list the species named by Vigors might nullify the entire effect of their intentions.

Picus viridanus viridanus Blyth

Picus viridanus Blyth, Journ. As. Soc. Bengal, **12**, pt. 2, 1843, p. 1000. (Arakan.)

Burma (except northwestern) south to southwestern Siam.

Picus viridanus weberi (Müller)

Gecinus Weberi A. Müller, Journ. f. Orn., **30**, 1882, p. 421. (Salanga = Junk Seylon.)

Picus viridanus meridianus Kloss, Ibis, 1926, p. 689. (Lamra, Trang, Peninsular Siam.)

Peninsular Siam south over the Malay Peninsula to Perlis and Patani.

Picus vittatus eisenhoferi Gyldenstolpe

Picus vittatus eisenhoferi Gyldenstolpe, Orn. Monatsb., **24**, 1916, p. 28. (Pa Hing, northern Siam.)

Eastern Burma, South Shan States, Laos and Annam, south to Siam, Cambodia and Cochinchina.

Picus vittatus connectens (Robinson and Kloss)

Gecinus vittatus connectens Robinson and Kloss, Bull. Brit. Orn. Cl., **40**, 1919, p. 13. (Langkawi Island.)

Langkawi Island, off the southwest coast of the Malay Peninsula.

Picus vittatus vittatus Vieillot

Picus vittatus Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 91. (No locality; restricted to Java by Hartert, Nov. Zool., **9**, 1902, p. 434; further restricted to western Java by Stresemann, *infra,* p. 74.)

Malay States; Sumatra; Lingga Archipelago; western Java.

Picus vittatus limitans Stresemann

Picus vittatus limitans Stresemann, Arch. f. Naturg., **87**, Abth. A, 1921, Heft 7, p. 74. (East Kangean Island.)

Eastern Java, Bali, Kangean Islands.

Picus xanthopygaeus (Gray and Gray)

Picus striolatus Blyth, Journ. As. Soc. Bengal, **12**, pt. 2, 1843, p. 1000. (Himalaya and central India.) Not *Picus striolatus* Lesson, 1831, nor of MacGillivray, 1840.

Brachylophus xanthopygœus J. E. and G. R. Gray, Cat. Spec. Mamms. Bds. Nepal and Thibet, 1846, p. 117, *ex* Hodgson in J. E. Gray, Zool. Misc., 1844; *nomen nudum,* quoted in synonymy of *Gecinus striolatus* (Blyth), preoccupied.

Picus myrmecophoneus Stresemann, Verh. Orn. Ges. Bayern, **14**, 1920, p. 289. New name for *Picus striolatus* Blyth, preoccupied.

Picus vittatus dehræ Stuart Baker, Bull. Brit. Orn. Cl., **46**, 1926, p. 69. (Dehra Dun, India.)

Picus vittatus dawae Van Tyne and Koelz, Occ. Papers Mus. Zool. Univ. Michigan, no. 334, 1936, p. 3. (Bhadwar, 2000 feet, Kangra district, Punjab, India.)

Garhwal, Nepal, Sikkim and eastern Assam, south to southern India, Burma, southwestern Siam, Cambodia and Cochinchina; Ceylon.

Picus canus canus Gmelin

Picus canus Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 434. (Norway, Russia, Siberia and Switzerland; restricted type locality, Norway *ex* Brisson.)

Picus viridi-canus Bechstein, Gemein. Naturg. Deutschl., ed 2, **2**, 1805, p. 1017. New name for *Picus canus*.

Picus canus meridionalis Burg, Weidmann, 1921, no. 10, p. 7. (Engadine.) Not *Picus meridionalis* Swainson, 1831, nor of Brehm, 1855.

Picus canus dzieduszyckii Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 75. (Lwów, southern Poland.)

Norway, Germany and France, east to the Urals and south to the Alps, the Balkan Peninsula (absent from Greece) and the Caucasus.

Picus canus perspicuus Gengler

Picus canus perspicuus Gengler, Balkanvögel, 1920, p. 137, (Nevscha, Bulgaria.)

Picus canus caesaris Steinbacher, Orn. Monatsb., **46**, 1938, p. 25. (Bailowo, near Sofia, Bulgaria.)

Bulgaria and perhaps adjacent portions of Yugoslavia.

Picus canus biedermanni Hesse

Picus canus biedermanni Hesse, Orn. Monatsb., **19**, 1911, p. 183. (Altai.)

The Altai, Sayan Mts., central Siberia, Transbaikalia, and the Kentei Mts. in northern Mongolia.

Picus canus jessoensis Stejneger

Picus canus jessoensis Stejneger, Proc. U. S. Nat. Mus., **9**, 1886, p. 106. (Sapporo, Hokkaido.)

Picus canus perpallidus Stejneger, Proc. U. S. Nat. Mus., **9**, 1886, p. 107, note. (Sidemi, Ussuriland.)

Gecinus canus griseoviridis A. H. Clark, Proc. U. S. Nat. Mus., **32**, 1907, p. 473. (Seoul, Korea.)

Manchuria, Ussuriland and Korea; Island of Hokkaido.

? Picus canus zimmermanni Reichenow

Picus canus zimmermanni Reichenow, Orn. Monatsb., **11**, 1903, p. 86. (Tsingtao, Shantung.)

Northeastern China in provinces of Hopeh and Shantung; doubtfully distinct from *P. c. jessoensis.*

Picus canus kogo (Bianchi)

Gecinus guerini kogo Bianchi, Bull. Brit. Orn. Cl., **16**, 1906, p. 69. (Bar-tschou River, affluent of the Nomu-tschu, tributary of the Mekong, Kham country,[1] Tibet.)

Picus canus stresemanni Yen, Orn. Monatsb., **41**, 1933, p. 17. (Sining-fu, Kansu.)

Western China in provinces of Kansu and Sikang.

Picus canus setschuanus Hesse

Picus canus setschuanus Hesse, Orn. Monatsb., **19**, 1911, p. 193. (Tatsienlu,[2] Szechwan.)

Gecinus canus jacobsii La Touche, Bull. Brit. Orn. Cl., **40**, 1919, p. 50. (Chang-yang-hsien, Hupeh.)

Picus canus yunnanensis LaTouche, Bull. Brit. Orn. Cl., **43**, 1922, p. 44. (Milati, Yunnan.)

China in provinces of Sikang, Szechwan, Hupeh, Kweichow and eastern Yunnan.

Picus canus guerini (Malherbe)

Chloropicos Guerini Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 539. (China, = Ningpo and Shanghai, *fide* Danis, *antea*, p. 260.)

Eastern China in provinces of Kiangsu, Anhwei and Chekiang.

Picus canus sobrinus nomen nov.

Picus canus ricketti Stuart Baker, Ibis, 1919, p. 187. (Fukien, China.) Not *Picus flavinucha ricketti* (Styan), 1898.

Southeastern China in provinces of Hunan, Fukien, Kwangtung and Kwangsi; probably also Kiangsi; greater part of Tonkin at lower elevations.

[1] Now in the Province of Sikang, China.

[2] According to the most recent maps this locality is now called Kangting and is situated in the Province of Sikang.

Picus canus tancolo (Gould)

Gecinus tancolo Gould, Proc. Zool. Soc. London, 1862, p. 283. (Formosa.)

Gecinus hainanus Ogilvie-Grant, Ibis, 1899, p. 584. (Lower slopes of Five-finger Mts., Hainan.)

Islands of Formosa and Hainan.

Picus canus sordidior (Rippon)

Gecinus sordidior Rippon, Bull. Brit. Orn. Cl., **19**, 1906, p. 32. (Yangtze River, western Yunnan.)

Northwestern Yunnan.

Picus canus sanguiniceps Stuart Baker

Picus occipitalis Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31 (1831), p. 8. (Himalayas.)[1] Not *Picus occipitalis* Valenciennes, 1826.

Picus barbatus J. E. Gray, in Hardwicke's Illustr. Indian Zool., **1**, pt. 6, 1831, pl. 31, f. 2. (India.) Not *Picus barbatus* Wylkes, 1825.

Picus canus sanguiniceps Stuart Baker, Bull. Brit. Orn. Cl., **46**, 1926, p. 70. New name for *Picus occipitalis* Vigors, preoccupied.

Northwestern Himalayas.

Picus canus gyldenstolpei Stuart Baker

Picus canus gyldenstolpei Stuart Baker, Bull. Brit. Orn. Cl., **39**, 1918, p. 19. (Sadiya, Lakhimpur, Assam.)

Eastern Nepal, Sikkim and Assam, south to Chittagong, Manipur and the upper Chindwin.

Picus canus hessei Gyldenstolpe

Picus canus hessei Gyldenstolpe, Orn. Monatsb., **24**, 1916, p. 28. (Pak Koh and Denchai, northern Siam.)

Gecinus canus microrhynchus Robinson and Kloss, Bull. Brit. Orn. Cl., **40**, 1919, p. 12. (Koh Lak, Rajburi, southwestern Siam.)

Burma, Laos and Tonkin (Laichau region), south throughout Siam (except Peninsular Siam), and Indochina to Cochinchina.

Picus canus robinsoni (Ogilvie-Grant)

Gecinus robinsoni Ogilvie-Grant, Bull. Brit. Orn. Cl., **19**, 1906, p. 11. (Gunong Tahan, 5300-6000 feet, Pahang, Malay States.)

Mountains of the Malay States.

[1] See note under *Picus squamatus squamatus*, p. 133.

Picus canus dedemi (van Oort)

Gecinus dedemi van Oort, Notes Leyden Mus., **34**, 1911, p. 59. (Volcano Sibajak, 1450 meters, Battack Mts., northeastern Sumatra.)

Mountains of Sumatra between 850 and 1600 meters.

Picus rabieri (Oustalet)

Gecinus Rabieri Oustalet, Bull. Mus. Hist. Nat. Paris, **4**, 1898, p. 12. (Chobon, Tonkin.)

Gecinus rubripectus Kuroda, Annot. Zool. Japon., **9**, 1917, p. 228. (Yenbai, Tonkin.)

Picus rubricollaris Stuart Baker, Bull. Brit. Orn. Cl., **41**, 1920, p. 10. (Ban Hoi Mak, Camp no. 39, "Siam" [= Laos], and Muongliep, Laos.)

Tonkin, Laos and Annam.

Picus erythropygius nigrigenis (Hume)

Gecinus nigrigenis Hume, Proc. As. Soc. Bengal, **5**, May, 1874, p. 106. (No locality); Stray Feathers, **2**, June, 1874, p. 444. ("Pakchan, Kollidoo, Darguin, and other parts of the Salween and neighboring districts of the Tenasserim provinces"; type from Pakchan Estuary.)

Burma from Toungoo and Karenni to southern Tenasserim and southern Siam.

Picus erythropygius erythropygius (Elliot)

Gecinus erythropygius Elliot, Nouv. Arch. du Mus. Hist. Nat. [Paris], **1**, 1865, Bull., p. 76, pl. 3. (Cochinchina.)

Bas-Laos, southern Annam, Cambodia, Cochinchina, eastern and southeastern Siam.

Picus flavinucha flavinucha Gould

Picus flavinucha Gould, Proc. Zool. Soc. London, pt. 1, 1833 (1834), p. 120. (Himalayas and the lower regions of India.)

The Himalayas from Mussoorie to eastern Assam and south to Burma and the southern Shan States.

Picus flavinucha archon Deignan

Chrysophlegma flavinucha annamensis Delacour and Jabouille, Bull. Brit. Orn. Cl., **48**, 1928, p. 130. (Khébon, 150 meters, Annam.) Not *Picus chlorolophus annamensis* Meinertzhagen, 1924.

Picus flavinucha archon Deignan, Bull. U. S. Nat. Mus., no. 186, 1945, p. 238. New name for *Chrysophlegma flavinucha annamensis* Delacour and Jabouille, preoccupied.

Northwestern Tonkin, Laos, Annam and adjacent parts of northern Siam.

Picus flavinucha styani (Ogilvie-Grant)

Chrysophlegma styani Ogilvie-Grant, Ibis, 1899, p. 585. (Lower slopes of Five-finger Mts., Hainan.)

Kwangsi and eastern Tonkin; Island of Hainan.

Picus flavinucha lylei (Kloss)

Chrysophlegma flavinucha lylei Kloss, Ibis, 1918, p. 110. (Koh Lak, southwestern Siam.)

Northern, western and southwestern Siam.

Picus flavinucha pierrei Oustalet

Picus (Chrysophlegma) Pierrei Oustalet, Le Naturaliste, **11**, 1889, p. 44, 45. (Cochinchina.)

Central, eastern and southeastern Siam, Cambodia and Cochinchina.

Picus flavinucha wrayi (Sharpe)

Chrysophlegma wrayi Sharpe, Proc. Zool. Soc. London, 1888, p. 279. (Gunong Batu Putch, 3400-4000 feet, Perak.)

Mountains of Perak.

Picus flavinucha ricketti (Styan)

Chrysophlegma ricketti Styan, Bull. Brit. Orn. Cl., **7**, 1898, p. xl. (Ching Ting, Fukien.)

Central Fukien.

Picus flavinucha mystacalis (Salvadori)

Chrysophlegma mystacalis Salvadori, Ann. Mus. Civ. Genova, **14**, 1879, p. 182. (Mt. Singalan, Sumatra.)

Mountains of Sumatra between 2500 and 5000 feet, from Mt. Leuser to near the end of Toba Lake.

Picus flavinucha korinchi (Chasen)

Chrysophlegma flavinucha korinchi Chasen, Treubia, **17**, 1940, p. 261. (Soengaikoem-bang, 4500 feet, Sumatra.)

Mountains of southwestern Sumatra from Mt. Korinchi [or Kerintji] to the mountains of Palembang.

Picus puniceus continentis (Robinson and Kloss)

Brachylophus puniceus continentis Robinson and Kloss, Journ. Fed. Malay States Mus., **10**, 1921, p. 204. (Tapli, Pakchan Estuary, Renong, northern Malay Peninsula.)

Southern Tenasserim, southward over the entire Malay Peninsula.

Picus puniceus observandus (Hartert)

Gecinus puniceus observandus Hartert, Nov. Zool., **3**, 1896, p. 542. (Malacca, Borneo and Sumatra; type from Deli, Sumatra.)

Sumatra, Bangka and Borneo.

Picus puniceus soligae deSchauensee and Ripley

Picus puniceus soligae deSchauensee and Ripley, Proc. Acad. Nat. Sci. Philadelphia, **91**, 1940, p. 405. (Soliga, 1000 feet, Nias Island.)

Nias Island.

Picus puniceus puniceus Horsfield

Picus puniceus Horsfield, Trans. Linn. Soc. London, **13**, pt. 1, 1821, p. 176. (Java.)

Gecinus puniceus typicus Hartert, Nov. Zool., **3**, 1896, p. 542. (Java.)

Java.

Picus chlorolophus simlae Meinertzhagen

Picus chlorolophus simlæ R. Meinertzhagen, Bull. Brit. Orn. Cl., **44**, 1924, p. 54. (Dehra Dun, northwestern India.)

Northwestern Himalayas from Mussoorie and Murree to Garhwal.

Picus chlorolophus chlorolophus Vieillot

Picus chlorolophus Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 78. (Bengal.)

Sikkim, Bhutan, Assam and southwestern Yunnan, south to Bengal, the hill tracts of northern Burma and the northern Shan States. The specimens recorded under this name from Kwangsi by Yen (Ois. (n.s.), **7**, 1937, p. 549.) should be reexamined.

Picus chlorolophus chlorigaster Jerdon

Picus chlorigaster Jerdon, Madras Journ. Lit. Sci., **13**, 1844, pt. 2, p. 139. (Southern India.)

Indian Peninsula.

Picus chlorolophus wellsi Meinertzhagen

Picus chlorolophus wellsi R. Meinertzhagen, Bull. Brit. Orn. Cl., **44**, 1924, p. 56. (Ceylon.)

Ceylon, below 5000 feet.

Picus chlorolophus chlorolophoides (Gyldenstolpe)

Brachylophus chlorolophoides Gyldenstolpe, Orn. Monatsb., **24**, 1916, p. 29. (Koon Tan, northern Siam.)

Picus chlorolophus burmæ R. Meinertzhagen, Bull. Brit. Orn. Cl., **44**, 1924, p. 54. (Pegu Town, Burma.)

Burma south of the Chin and Kachin Hills to Tenasserim and northern Siam.

Picus chlorolophus citrinocristatus (Rickett)

Gecinus citrinocristatus Rickett, Bull. Brit. Orn. Cl., **11**, 1901, p. 46. (Yamakan, Fukien.)

Southeastern China in Province of Fukien; Tonkin, northern Annam.

Picus chlorolophus longipennis (Hartert)

Gecinus chlorigaster longipennis Hartert, Nov. Zool., **17**, 1910, p. 222. (Mt. Wuchi, Hainan.)

Island of Hainan.

Picus chlorolophus laotianus Delacour

Picus chlorolophus laotianus Delacour, Bull. Brit. Orn. Cl., **47**, 1926, p. 12. (Xieng-Khouang, Laos.)

Northern Laos and adjacent parts of northern Siam.

Picus chlorolophus annamensis Meinertzhagen

Picus chlorolophus annamensis R. Meinertzhagen, Bull. Brit. Orn. Cl., **44**, 1924, p. 57. (Daban, southern Annam.)

Cirropicus chlorolophus conjunctus Riley, Proc. Biol. Soc. Washington, **48**, 1935, p. 53. (Kao Sabab, southeastern Siam.)

Central and southern Annam, southern Laos, eastern and southeastern Siam.

Picus chlorolophus krempfi Delacour and Jabouille

Picus chlorolophus harmandi Delacour, Bull. Brit. Orn. Cl., **47**, 1927, p. 170. (Phurieng, Cochinchina.) Not *Picus harmandi* Oustalet, 1879.

Picus chlorolophus krempfi Delacour and Jabouille, Ois. Indochine Franç., **2**, 1931, p. 201. New name for *Picus chlorolophus harmandi* Delacour, preoccupied.

Cochinchina.

Picus chlorolophus rodgeri (Hartert and Butler)

Gecinus rodgeri Hartert and Butler, Nov. Zool., **5**, 1898, p. 508. (Gunong Ijau, 4000 feet, Perak.)

Mountains of Perak.

Picus chlorolophus vanheysti (Robinson and Kloss)

Brachylophus chlorolophus vanheysti Robinson and Kloss, Journ.

Str. Br. Roy. As. Soc., no. 80, 1919, p. 97. (Bandar Baroe ♂ and Gunong Talaman ♀, northeastern Sumatra.)

Mountains of Sumatra.

Picus mentalis humii (Hargitt)

Chrysophlegma humii Hargitt, Ibis, 1889, p. 231. (Malacca ♂ and Klang, Salangor ♀.)

Southern Tenasserim southward over the Malay Peninsula; Sumatra, Bangka, western Borneo.

Picus mentalis mentalis Temminck

Picus mentalis Temminck, Pl. col., livr. 65, 1825, pl. 384. (Java.)

Java.

Picus mentalis saba (Chasen and Kloss)

Chrysophlegma mentale saba Chasen and Kloss, Journ. f. Orn., 1929, Ergänzungsb. 2, p. 111. (Samawang River, near Sandakan, British North Borneo.)

Southern and eastern Borneo.

Picus mineaceus perlutus (Kloss)

Callolophus mineatus perlutus Kloss, Ibis, 1918, p. 110. Koh Lak, Siam.)

Southern Tenasserim and southwestern Siam to the Pakchan Estuary.

Picus mineaceus malaccensis Latham

Picus malaccensis Latham, Index Orn., 1, 1790, p. 241. (Malacca.)

Malay States from the Pakchan Estuary southward; Sumatra, Bangka, Billiton; northwestern Borneo on the lower slopes of Mt. Kina Balu.

Picus mineaceus niasensis (Büttikofer)

Chrysophlegma niasense Büttikofer, Notes Leyden Mus., 18, 1897, p. 169. (Nias Island.)

Nias Island.

Picus mineaceus mineaceus Pennant

Picus mineaceus Pennant, Indian Zool., 1769, p. 4, pl. 4. (Highlands of Java.)

Picus miniatus J. R. Forster, Indische Zool., 1781, p. 14, pl. 4. (Java.)

Western and central Java.

Picus mineaceus dayak (Stresemann)

Callolophus miniatus dayak Stresemann, Arch. Naturg., **87**, Abth. A, 1921, Heft 7, p. 82. (Landak, Borneo.)

Borneo.

Genus **DINOPIUM** Rafinesque

Dinopium Rafinesque, Principes Fondamentaux de Somiologie, 1814, p. 2 of cover.[1] Type, by monotypy, *Dinopium (Picoides) erythronotus* Rafinesque, which is based on "le picoide á dos rouge", Bull. des Sciences de Soc. Philom., Paris, 3, 1803, p. 146 = *Picus javanensis* Ljungh.

Tiga Kaup, Thierreich, 2, 1836, Th. 1, p. 37. Type, by monotypy and tautonymy, *Picus tiga* Horsfield = *Picus javanensis* Ljungh.

Brachypternus Strickland, Ann. and Mag. Nat. Hist., 7, 1841, p. 35. Type, by subsequent designation, *B. aurantius* (L). Strickl. = *Picus benghalensis* Linné. (G. R. Gray, List. Gen. Bds., 1841, p. 71.)

Chloropicoides Malherbe, Bull. Soc. Hist. Nat. Dépt. Moselle, 5e cahier, 1848–1849 (1849), p. 26. Type, by monotypy, *Picus rafflesii* Vigors.

Gauropicoides Malherbe, Monogr. Picidées 1, 1861, intr., p. liii. Type, by monotypy, [*Picus*] *rafflesii* [Vigors.]

Mesospilus Sundevall, Consp. Av. Picinarum, 1866, p. 116. Type, by monotypy, *Picus rafflesii* Vigors.

Dinopicus Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. xiii, 72. Emendation of (or *lapsus* for) *Dinopium* Rafinesque.

cf. Stuart Baker, Ibis, 1919, p. 205–209.

——, Fauna Brit. India, ed. 2, Bds. 4, 1927, p. 66–77.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 144; 148–149.

Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 89–94.

Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., 37, 1934, p. 292–294.

Dinopium benghalense benghalense (Linné)

Picus benghalensis Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (Bengal.)

[1] This name, usually cited from Rafinesque's 'Précis de Decouv. somiologiques', 1814, p. 2 of cover, does not appear in the copy available to me, but occurs as cited in the 'Principes' a copy of which has also been examined in this connection. See also Richmond, Proc. U.S. Nat. Mus., **35**, 1908, p. 606.

Brachypternus benghalensis palliolatus Van Tyne and Koelz, Occ. Papers Mus. Zool. Univ. Michigan, no. 334, 1936, p. 2. (Bhadwar, 2000 feet, Kangra district, Punjab.)

Upper Punjab, United Provinces, Bihar and Assam, south to Central India, Orissa and Bengal.

Dinopium benghalense dilutum (Blyth)

Br[achypternus] aurantius var. *Br[achypternus] dilutus* Blyth, Cat. Bds. Mus. As. Soc., 1849, p. 56. (Sind.) Name for the species of *Brachypternus* described by Blyth in Journ. As. Soc. Bengal, **14**, pt. 2, 1845, p. 550.

Baluchistan, Sind and Mt. Aboo, intergrading with *B. d. benghalense* in the lower Punjab.

Dinopium benghalense puncticolle (Malherbe)

Picus (Brachypternopicus) puncticollis Malherbe, Rev. Zool., 1845, p. 404. (India, = slopes of the Nilgiri Hills.)

Southern India (except area occupied by *D. b. tehminae*), north to the Godavery River; intergrades with *D. b. benghalense* in eastern Hyderabad.

Dinopium benghalense tehminae (Whistler and Kinnear)

Brachypternus benghalensis tehminae Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., **37**, 1934, p. 293. (Rajampara, 1350 feet, Panthalam Hills, India.)

Brachypternus benghalensis woodi Koelz, Proc. Biol. Soc. Washington, **52**, 1939, p. 78. (Jagalbed, Bombay Presidency.)

West coast of India from Malabar to Travancore.

Dinopium benghalense jaffnense (Whistler)

Picus ceylonus Auct. not of Cuvier.

Brachypternus benghalensis jaffnensis Whistler, Spolia Zeylanica, **23**, 1944, p. 206. (Illuppaikkadavai, Ceylon.)

Low, arid portions of northern Ceylon.

Dinopium benghalense erithronothon (Vieillot)

Picus erithronothos Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 73. (Java, error = Ceylon.)

Picus neglectus Wagler, Syst. Av., 1827, Picus, sp. 99. (Ceylon and Java.)

Picus ceylonus Cuvier, Règne Anim., Nouv. éd., **1**, 1829, p. 451, based on "Nat. Forsch. 14, pl. 1."

Brachypternus intermedius Legge, Stray Feath., **4**, 1876, p. 242. (Ceylon.) Not *Picus intermedius* Blyth, 1845, which = *Dinopium javanense intermedium* Blyth.

Southern half of Ceylon.

Dinopium shorii (Vigors)

Picus Shorii Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31 (1832), p. 175. (Himalayas.)[1]

The Himalayas from Nepal through Sikkim, northern Assam, Chin and Kachin Hills, northern Arakan Hills and the Burmese Hill ranges south to Thayetmyo.

Dinopium javanense malabaricum Whistler and Kinnear

Dinopium javanense malabaricum Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., **37**, 1934, p. 294. (Manantoddy Wynaad, India.) New name for *Picus rubropygialis* auct., not of Malherbe, 1845.

West side of the Indian Peninsula from North Kanara to Travancore.

Dinopium javanense intermedium (Blyth)

Picus (Tiga) intermedius Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, 1845, p. 193. (Nepal, Assam, Sylhet, Tipperah, and Tenasserim = Arakan, *fide* Stuart Baker, Ibis, 1919, p. 208, and restricted to Ramree Island by Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, **5**, 1923, p. 187.)

Cachar and hills south of the Brahmaputra, Manipur, Burma north of lat. 10°, Shan States, Siam, Tonkin, Laos, Annam, Cochinchina and Cambodia.

Dinopium javanense javanense (Ljungh)

Picus javanensis Ljungh, K. Vet. Akad. Nya Handl., **18**, 1797, p. 134, pl. 6. (Java.)

Dinopium (Picoïdes) erythronotus Rafinesque, Principes Fondamentaux de Somiologie, 1814, p. 2 of cover. (Java, based on le picoïde à dos rouge" Rafinesque, Bull. des Science de Soc. Philom. Paris, **3**, 1803, p. 146.)

Picus (Brachypternopicus) Rubropygialis Malherbe, Rev. Zool., 1845, p. 400. (Bengal = "East Indies" *fide* Whistler and Kinnear, *antea* p. 294.)

Dinopium javanense palmarum Stresemann, Arch. Naturg., **87**, Abth. A, 1921, Heft 7, p. 91. (Fort de Kock, Sumatra.)

Malay Peninsula, Sumatra, Riouw Archipelago, western and central Java.

Dinopium javanense exsul (Hartert)

Tiga javanensis exsul Hartert, Nov. Zool., **8**, 1901, p. 51. (Bali.)

Eastern Java and Bali.

[1] See note under *Picus squamatus squamatus*, p. 133.

Dinopium javanense borneonense (Dubois)

Tiga borneonensis Dubois, Proc. Zool. Soc. London, 1897, p. 782. (Borneo.)

Borneo (except northeastern).

Dinopium javanense raveni Riley

Dinopium raveni Riley, Proc. Biol. Soc. Washington, **40**, 1927, p. 139. (Pulo Eraban, off the northeast coast of Borneo.)

Northeastern Borneo and adjacent small islands.

Dinopium javanense everetti (Tweeddale)

Tiga everetti Tweeddale, Proc. Zool. Soc. London, 1878, p. 612, pl. 37. (Puerto Princesa, Paláwan.)

Philippine Islands: Busuanga, Culión, Paláwan, Balabac.

Dinopium rafflesii peninsulare (Hesse)

Gauropicoides rafflesi peninsularis Hesse, Orn. Monatsb., **19**, 1911, p. 192. (Malacca.)

Tenasserim and southwestern Siam, southward over the Malay Peninsula.

Dinopium rafflesii rafflesii (Vigors and Horsfield)

Picus Rafflesii Anonymous [= Vigors and Horsfield] in Lady Sophia Raffles, Mem. Life and Public Services Sir T. S. Raffles, 1830, p. 669. (No locality = Sumatra.)

Sumatra and Bangka.

Dinopium rafflesii dulitense Delacour

Gauropicoides rafflesi borneonensis Hesse, Orn. Monatsb., **19**, 1911, p. 192. (Mt. Dulit, Sarawak, Borneo.) Not *Tiga borneonensis* Dubois, 1897.

Dinopium rafflesi dulitense Delacour, Zoologica, **31**, 1946, p. 2. New name for *Gauropicoides rafflesi borneonensis* Hesse, preoccupied.

Borneo.

Genus **GECINULUS** Blyth

Gecinulus Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, 1845, p. 192. Type, by monotypy, *Picus grantia* McClelland.

cf. Stuart Baker, Fauna Brit. India, ed 2, Bds., **4**, 1927, p. 27–29.

Delacour and Jabouille, Ois. Indochine Franç., **2**, 1931, p. 207–208.

LaTouche, Handb. Bds. E. China, **2**, pt. 1, 1931, p. 11–12.

Gecinulus grantia grantia (McClelland)

Picus (Chrysonotus) Grantia McClelland, Proc. Zool. Soc. London, pt. 7, 1839 (1840), p. 165. (Assam.)

Nepal and Sikkim to eastern Assam and south to eastern Bengal and the Chin Hills.

Gecinulus grantia indochinensis Delacour

Gecinulus grantia indochinensis Delacour, Bull. Brit. Orn. Cl., 47, 1927, p. 154. (Backan, northeastern Tonkin.)

Tonkin, Laos and Annam.

Gecinulus grantia viridanus Slater

Gecinulus viridanus Slater, Ibis, 1897, p. 176. (Kuatun, Fukien.)

Mountains of central and western Fukien and northern Kwangtung.

Gecinulus viridis viridis Blyth

Gecinulus viridis Blyth, Journ. As. Soc. Bengal, 31, 1862, p. 341. (Toungoo.)

Central Burma and the Shan States to southwestern, central and eastern Siam.

Gecinulus viridis robinsoni Kloss

Gecinulus viridis robinsoni Kloss, Ibis, 1918, p. 105. (Mts. of the Selangor-Pahang boundary, Malay States.)

The Malay Peninsula from Perak to Salangor, southeastern Siam (?); recorded from Muongliep, Haut Laos (1 spec).

Genus **MEIGLYPTES** Swainson

Meiglyptes Swainson, Classif. Bds., 2, 1837, p. 309. Type, by monotypy, *Picus poicilophus* Temminck = *Picus tristis* Horsfield.

cf. Chasen, Bull. Raffles Mus., no. 11, 1935, p. 146–147.

Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 191–195.

Mayr, Bull. Raffles Mus., no. 14, 1938, p. 31–32.

Riley, Bull. U.S. Nat. Mus., no. 172, 1938, p. 227–230.

Ripley, Bull. Mus. Comp. Zoöl., 94, 1944, p. 367–369.

Stresemann, Arch, Naturg., 87, Abth. A, 1921, Heft 7, p. 99–102 (excl. *brachyurus*).

Meiglyptes tristis grammithorax (Malherbe)

Phaiopicus grammithorax Malherbe, Monogr. Picidées, 2, 1862, p. 12; 3, pl. 48, f. 4, 5, 6. (Malay Peninsula and Soenda Islands.)

Southern Tenasserim and southwestern Siam southward over the Malay Peninsula.

Meiglyptes tristis micropterus Hesse

Miglyptes [*sic*] *tristis micropterus* Hesse, Orn. Monatsb., **19**, 1911, p. 182. (Borneo, Great Natuna Island; type from Mt. Dulit, 1000 feet, Borneo.)

Sumatra, Borneo, North Bornean Islands, North Natoena Islands.

?Meiglyptes tristis microterus Oberholser

Meiglyptes grammithorax microterus Oberholser, Smiths. Misc. Coll., **60**, 1912, no. 7, p. 6. (Telok Bluku, Nias Island.)

Nias Island; doubtfully distinct from *M. t. grammithorax*.

Meiglyptes tristis tristis (Horsfield)

Picus tristis Horsfield, Trans. Linn. Soc. London, **13**, pt. 1, 1821, p. 177. (Java.)

Java.

Meiglyptes jugularis (Blyth)

Picus (*Meiglyptes*) *jugularis* Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, 1845, p. 195. (Arakan and Tenasserim.)

Arakan, Burma, Tenasserim, Siam, Laos, southern Annam, Cambodia and Cochinchina.

Meiglyptes tukki tukki (Lesson)

Picus tukki Lesson, Rev. Zool., 1839, p. 167. (Sumatra.)

Malay Peninsula, Sumatra, Bangka, Billiton, Borneo (except southern).

Meiglyptes tukki azaleus Oberholser

Meiglyptes tukki azaleus Oberholser, Bull. U.S. Nat. Mus., no. 159, 1932, p. 46. (Bunguran Island, North Natuna Islands.)

North Natoena Islands.

Meiglyptes tukki pulonis Chasen and Kloss.

Meiglyptes tukki pulonis Chasen and Kloss, Journ. f. Orn., 1929, Ergänzungsb. 2, p. 112. (Banguey Island.)

Banguey [or Banggi] Island, off the northern tip of Borneo.

Meiglyptes tukki percnerpes Oberholser

Meiglyptes tukki percnerpes Oberholser, Journ. Washington Acad. Sci., **14**, 1924, p. 301. (Batu Jurong, southwestern Borneo.)

Southern Borneo.

Meiglyptes tukki calceuticus Oberholser

Meiglyptes tukki calceuticus Oberholser, Smiths. Misc. Coll., **60**, 1912, no. 7, p. 6. (Pulo Tuanku, Banjak Islands.)

Banjak Islands.

Meiglyptes tukki infuscatus Salvadori

Miglyptes [sic] *infuscatus* Salvadori, Ann. Mus. Civ. Genova, **24**, 1887, p. 531. (Nias Island.)

Meiglyptes tukki hylodromus Oberholser, Journ. Washington Acad. Sci., **14**, 1924, p. 301. (Mojeia River, Nias Island.)

Nias Island.

Meiglyptes tukki batu deSchauensee and Ripley

Meiglyptes tukki batu deSchauensee and Ripley, Proc. Acad. Nat. Sci. Philadelphia, **91**, 1940, p. 406. (Pulo Tana Massa, Batu Islands.)

Batu Islands.

Genus **MULLERIPICUS** Bonaparte[1]

Hemilophus a Mulleripicus Bonaparte, Ateneo Italiano, **2**, May, 1854, p. 122. (Consp. Vol. Zygodact., p. 7.) Type, by monotypy, *Picus pulverulentus* Temminck.

Hemilophus b Lichtensteinipicus Bonaparte, Ateneo Italiano, **2**, May, 1854, p. 122. (Consp. Vol. Zygodact., p. 7.) Type, by monotypy, *Picus modestus* Vigors = *Picus funebris* Valenciennes.

Hemilophus a Alophonerpes Reichenbach, Handb. spec. Orn., cont. xii, Oct., 1854, Scansoriae c Picinae, p. 385. Type, by subsequent designation, *Picus pulverulentus* Temminck (Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 494.)

cf. Hesse, Mitt. Zool. Mus. Berlin, **6**, 1912, p. 230–233.

McGregor, Man. Phil. Bds., pt. 1, 1909, p. 403–405.

Stresemann, Journ. f. Orn., **88**, 1940, p. 390–392.

Mulleripicus pulverulentus harterti Hesse

Mülleripicus pulverulentus harterti Hesse, Orn. Monatsb., **19**, 1911, p. 182. (Assam, and Burma to Tenasserim; the types listed by Hesse, 1912, p. 232, are from Pya, Upper Chindwin.)

Northern India from the United Provinces to Assam, Burma, northern Tenasserim, Siam and Indochina (Laos, Annam, Cochinchina, Cambodia).

[1] *Hemilophus* Swainson, 1837, the oldest name for this genus is preoccupied by *Hemilophus* Audinet-Serville, 1835, Coleoptera.

Mulleripicus pulverulentus pulverulentus (Temminck)

Picus pulverulentus Temminck, Pl. col., livr. 66, 1826, pl. 389. (Java and Sumatra.)

Malay Peninsula, Sumatra, Riouw Archipelago, Java (but not eastern), Borneo, North Natoena Islands; Paláwan and Balabac.

Mulleripicus funebris (Valenciennes)

Picus funebris Valenciennes, Dict. Sci. Nat., éd. Levrault, **40**, 1826, p. 179. (Philippine Islands.)

Philippine Islands: Catanduanes, Luzon, Marinduque.

Mulleripicus fuliginosus Tweeddale

Mulleripicus fuliginosus Tweeddale, Ann. and Mag. Nat. Hist. (4), **20**, 1877, p. 534. (Surigao, Mindanao, Philippine Islands.)

Philippine Islands: Samar, Leyte, Mindanao.

Mulleripicus fulvus fulvus (Quoy and Gaimard)

Picus fulvus Quoy and Gaimard, Voy. 'Astrolabe', Zool., **1**, 1830, p. 228; Atlas Ois., pl. 17, f. 2. (Celebes.)

Northern Peninsula of Celebes as far as the base of the Matinan Mts.; Togian Islands.

Mulleripicus fulvus wallacei Tweeddale

Mulleripicus Wallacei Tweeddale, Ann. and Mag. Nat. Hist. (4), **20**, 1877, p. 533. (Macassar.)

Microstictus intermedius A. B. Meyer, Notes Leyden Mus., **23**, 1903, p. 186. (Gimpoe, Celebes.)

Lichtensteinipicus wallacei ochraceus Rensch, Orn. Monatsb., **34**, 1926, p. 175. (Muna Island.)

All of central Celebes to the base of the northern Peninsula, the south, southeast and east peninsulas; Island of Muna.

Genus **DRYOCOPUS** Boie

Dryocopus Boie, Isis von Oken, 1826, Bd. 2, col. 977. Type, by monotypy, *Picus martius* Linné.

Dryotomus Swainson, in Swainson and Richardson, Fauna Bor.-Am., **2**, 1831 (1832), p. 301. Type, by original designation, *Picus martius* Linné.

Hylatomus Baird, Rept. Expl. & Surv. R. R. Pacific, **9**, 1858, p. xxviii, 107. Type, by monotypy, *Picus pileatus* Linné.

Ceophloeus Cabanis, Journ. f. Orn., **10**, 1862, p. 176. Type, by original designation, *Picus lineatus* Linné.

Phloeotomus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 102. Type, by monotypy, *Picus pileatus* Linné.

Thriponax Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 105. Type, by subsequent designation, *T. javensis* = *Picus javensis* Horsfield (Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 497.)

Neophloeotomus Dabbene, An. Mus. Nac. Hist. Nat. Buenos Aires, **27**, 1915, p. 76. Type, by original designation, *Phloeotomus schulzi* Cabanis.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 87–91.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 151.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13** pt. 2, no. 2, 1919, p. 457–461.

Démentiev, Alauda, **13**, 1939, p. 7–17.

Hand-List Jap. Bds., ed. 3, 1942, p. 94.

Hartert, Vög. pal. Fauna, **2**, 1912, p. 933–935.

Kuroda, Tori, **5**, 1927, p. 237–241.

Peters, Occ. Papers Boston Soc. Nat. Hist., **5**, 1930, p. 317–322.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 146–164.

Stresemann, Nov. Zool., **20**, 1913, p. 316–321.

van Rossem, Trans. San Diego Soc. Nat. Hist., **8**, 1934, p. 9–12.

Dryocopus martius pinetorum (C. L. Brehm)

Dendrocopus pinetorum C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 185. (Mountains in the coniferous forests.)

Europe east to western Poland, south to northern Spain and the Balkan Peninsula, also in the Caucasus, Asia Minor and the mountains of northern Iran.

Dryocopus martius martius (Linné)

Picus martius Linné, Syst. Nat., ed. 10, **1**, 1758, p. 112. (Europe, = Sweden, *ex* Fn. Suec.)

Dendrocopus martius reichenowi Kothe, Orn. Monatsb., **14**, 1906, p. 95. (Ussuri River, Amur region.)

Picus jakutorum Buturlin, Journ. f. Orn., **58**, 1908, p. 284. (Jakutsk, Siberia.)

Dryocopus martius silvifragus Riley, Proc. Biol. Soc. Washington, **28**, 1915, p. 162. (Hakodate, Hokkaido.)

Dryoscopus [*sic*] *martius morii* Kuroda, Auk, **38**, 1921, p. 575. (Gumpojo, Keiki distr., Korea.)

Dryocopus martius sakhalinensis Momiyama, Annot. Orn. Orient., 1, 1928, p. 211. (Hamtasa, southern Sakhalin.)

Scandinavia and the Baltic States eastward across the coniferous forest belt of northern Russia and Siberia to the Sea of Okhotsk, and south to central Russia, forests of the Khirghiz Steppes, the Altai, Dzungaria, Mongolia, northern China, Korea, Sakhalin, Kurile Islands (Kunashiri only) and Hokkaido.

Dryocopus martius khamensis (Buturlin)

Picus khamensis Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 229. (Eastern slope of the great plateau of Tibet.)

Western China from Koko Nor to Tibet.

Dryocopus javensis hodgei (Blyth)

Mulleripicus Hodgei Blyth, Journ. As. Soc. Bengal, 29, 1860, p. 105. (Andaman Islands.)

Andaman Islands.

Dryocopus javensis hodgsonii (Jerdon)

Malacolophus (*Hemilophus*) *Hodgsonii* Jerdon, Madras Journ. Lit. Sci., 11, 1840, pt. 1, p. 215, pl. 2.[1] (Indian Peninsula; restricted type locality, Telicherry.)

Western India from Belgaum to Travancore

Dryocopus javensis richardsi Tristram

Dryocopus richardsi Tristram, Proc. Zool. Soc. London, 1879, p. 386, pl. 31. (Tsushima.)

Central and southern Korea; Island of Tsushima where now extirpated.

Dryocopus javensis forresti Rothschild

Dryocopus forresti Rothschild, Bull. Brit. Orn. Cl., 43, 1922, p. 9. (Mekong Valley, Yunnan.)

Mountains of extreme southeastern Sikang, western Yunnan and northern Tonkin (Chapa).

Dryocopus javensis feddeni (Blyth)

Mulleripicus Feddeni "Blanford" Blyth, Journ. As. Soc. Bengal, 32, Jan. or later, 1863, p. 75. (Burma = Pegu.)

Thriponax Jerdoni Cabanis and Heine, Mus. Hein, Th. 4, after 15 July, 1863, Heft 2, p. 105. (Upper Pegu.)

Burma from the Chin and Kachin Hills and the Northern Shan States to northern Tenasserim; Siam south to about lat. 12° N., Bas Laos, southern Annam, Cambodia and Cochinchina.

[1] The plate is lettered *Picus Hodgsonii.*

Dryocopus javensis javensis (Horsfield)

Picus Javensis Horsfield, Trans. Linn. Soc. London, **13**, pt. 1, 1821, p. 175. (Java.)

Picus crawfurdii J. E. Gray in Griffith, Cuvier's Anim. Kingd., **7**, [Aves, **2**], 1829, plate to text on p. 513. (No locality, "from an Indian drawing".) [1]

Southern Tenasserim southward over the Malay Peninsula; Sumatra, Riouw Archipelago, Bangka, Mansalar Island, Java, Bali, Borneo, North Bornean Islands, North Natoena Islands.

Dryocopus javensis parvus (Richmond)

Thriponax parvus Richmond, Proc. Biol. Soc. Washington, **15**, 1902, p. 189. (Simalur Island.)

Simalur [Simeuloeë] Island.

Dryocopus javensis büttikoferi (Richmond)

Thriponax javensis büttikoferi Richmond, Proc. Biol. Soc. Washington, **25**, 1912, p. 104. (Siaba Bay, Nias Island.)

Nias Island.

Dryocopus javensis hargitti (Sharpe)

Thriponax hargitti Sharpe, Ibis, 1884, p. 317, pl. 8. (Paláwan.)

Philippine Islands: Paláwan.

Dryocopus javensis confusus (Stresemann)

Thriponax javensis confusus Stresemann, Nov. Zool., **20**, 1913, p. 317 (in key), p. 318. (Mt. Arayat, Luzon.)

Philippine Islands: Luzon.[2]

Dryocopus javensis mindorensis (Steere)

Thriponax Mindorensis Steere, List Bds. Mamms. Steere Exped., 1890, p. 8. (Mindoro.)

Philippine Islands: Mindoro.

Dryocopus javensis philippensis (Steere)

Thriponax Philippensis Steere, List Bds. Mamms. Steere Exped., 1890, p. 8. (Guimaras and Masbate.)

Philippine Islands: Masbate, Panay, Guimaras, Negros.

Dryocopus javensis pectoralis (Tweeddale)

Thriponax pectoralis Tweeddale, Proc. Zool. Soc. London, 1878, p. 340. (Leyte.)

Philippine Islands: Samar, Leyte, Panaon, Bohol.

[1] The drawing evidently made from an aberrant specimen of *D. j. javensis* lacking the red malar stripe and with a gray patch on the breast.

[2] I am unable to discover on what basis Hachisuka records this race from Cebu and Bongao.

Dryocopus javensis multilunatus (McGregor)

Thriponax multilunatus McGregor, Phil. Journ. Sci., 2, 1907, p. 285. (Isabella, Basilan.)

Philippine Islands: Mindanao, Basilan.

Dryocopus javensis suluënsis (W. Blasius)

Thriponax javensis var. nov. *suluënsis* W. Blasius, Journ. f. Orn., 38, 1890, p. 140. (Sulu Archipelago.)

Sulu Archipelago.

Dryocopus pileatus picinus (Bangs)

Phlœotomus pileatus picinus Bangs, Proc. New England Zoöl. Cl., 4, 1910, p. 79. (Sumas, British Columbia.)

Canadian and Transition zone forests of western North America from southern British Columbia to northern California, south in the Coast Range to Marin Co. and in the Sierra Nevada to the Greenhorn Mts., east to western Montana.

Dryocopus pileatus abieticola (Bangs)

Ceophlœus pileatus abieticola Bangs, Auk, 15, 1898, p. 176. (Greenville, Maine.)

Canadian and Transition zone forests from Mackenzie, Manitoba, New Brunswick and Nova Scotia, south to Minnesota, Iowa, Illinois, Indiana, Ohio, Pennsylvania, New York and central New England, extending southward in the Alleghenies to West Virginia.

Dryocopus pileatus pileatus (Linné)

Picus pileatus Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (America = South Carolina *ex* Catesby.)

Lower Austral forests of the United States from Oklahoma, Illinois and southeastern Pennsylvania to the Gulf coast and interior of Georgia, extending westward to middle Texas, and in the mountains from northern Tennessee southward.

Dryocopus pileatus floridanus (Ridgway)

Phlœotomus pileatus floridanus Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 33. (Prevatt's Camp, 24 miles southwest of Kissimmee, Florida.)

Coastal plain of Georgia southward over the Florida peninsula.

Dryocopus lineatus obsoletus (van Rossem)

Ceophloeus lineatus obsoletus van Rossem, Trans. San Diego Soc. Nat. Hist., 8, 1934, p. 12. (Álamos, Sonora.)

Southern Sonora, northern Sinaloa and probably adjacent parts of Chihuahua.

Dryocopus lineatus scapularis (Vigors)

Picus scapularis Vigors, Zool. Journ., **4**, 1829, p. 354. (San Blas [Nayarit], Mexico.)

Southern Sinaloa, Jalisco, Nayarit and Guerrero.

Dryocopus lineatus petersi (van Rossem)

Ceophloeus lineatus leucopterylus of authors not *Campephilus leucopterylus* of Reichenbach.

Ceophloeus lineatus petersi van Rossem, Trans. San Diego Soc. Nat. Hist., **8**, 1934, p. 11. (Ciudad Victoria, Tamaulipas.)

Tamaulipas, Nuevo León, San Luís Potosí and perhaps adjacent parts of northern Veracruz.

Dryocopus lineatus similis (Lesson)

Picus similis Lesson, Description de Mamm. et d'Ois. récomm. decouv., 1847, p. 204. (San Carlos, Central America = La Unión, El Salvador.) [1]

Forested lowlands of southern México and Central America from Oaxaca and southern Veracruz to northwestern Costa Rica.

Dryocopus lineatus mesorhynchus (Cabanis and Heine)

Ceophloeus mesorhynchus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 86. (Costa Rica.) [2]

Eastern and southern Costa Rica and western Panamá.

Dryocopus lineatus nuperus (Peters)

Ceophloeus lineatus nuperus Peters, Occ. Papers Boston Soc. Nat. Hist., **5**, 1930, p. 320. (La Concepción, 3000 feet, Santa Marta, Colombia.)

Panamá from the Canal Zone eastward; Colombia west of the Eastern Andes and in the Santa Marta region.

Dryocopus lineatus lineatus (Linné)

Picus lineatus Linné, Syst. Nat., ed. 12, **1**, 1766, p. 174. (Cayenne.)

Amazonian Colombia to the Guianas and south to Amazonian Perú, northern Bolivia and the greater part of Brazil east to Maranhão (?), thence southward to Paraná; Paraguay; northern Argentina in provs. of Salta, Formosa and Misiones; Island of Trinidad.

[1] Issued as a Supplement to the Œuvres de Buffon, ed. Lévêque, of which it appears to be Vol. 20.

[2] See van Rossem, *antea*, p. 9-10, for a discussion of the identity of the three cotypes on which the name *mesorhynchus* was founded.

Dryocopus lineatus fuscipennis Sclater

Dryocopus fuscipennis Sclater, Proc. Zool. Soc. London, pt. 28, 1860, p. 286. (Babahoyo, Ecuador.)

Western Ecuador and northwestern Peru.

Dryocopus lineatus improcerus (Bangs and Penard)

Ceophloeus lineatus improcerus Bangs and Penard, Bull. Mus. Comp. Zoöl., 62, 1918, p. 58. (Baía, Brazil.)

Eastern Brazil in State of Baía.

Dryocopus erythrops erythrops (Valenciennes)

Picus erythrops Valenciennes, Dict. Sci. Nat., éd, Levrault, 40, 1826, p. 178. (Brazil.)

Eastern and southern Brazil in states of Pernambuco (?), Espirito Santo, Rio de Janeiro, São Paulo, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.[1]

Dryocopus erythrops fulcitus (Peters)

Ceophloeus erythrops fulcitus Peters, Occ. Papers Boston Soc. Nat. Hist., 5, 1926, p. 195. (Resistencia, Chaco, Argentina.)

Northern Argentina in Territory of Chaco.

Dryocopus schulzi (Cabanis)

Phloeotomus Schulzi Cabanis, Journ. f. Orn., 31, 1883, p. 102. (Tucumán.)

Neophloeotomus Shiptoni Dabbene, An. Mus. Nac. Hist. Nat. Buenos Aires, 27, 1915, p. 79, pl. 1. (Vipos, 500 metres, Tucumán.)

Neophloeotomus Schulzi major Dabbene, Physis (Buenos Aires), 2, pt. 10, 1916, p. 167. (Resistencia, Chaco.)

Ceophloeus ater Mogensen, Hornero, 5, 1932, p. 64. (New name for *major*.)

Argentina in provs. of Chaco, Santiago del Estero, Tucumán, Córdoba and Misiones; Paraguay (one record).

Dryocopus galeatus (Temminck)

Picus galeatus "Natter." Temminck, Pl. col., livr. 29, 1822, pl. 171. (Brazil.)

Campephilus rufifrons W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 49. (Río Alto Paraná, lat. 25° 43′ S.)

[1] It has been suggested that *D. erythrops* is but subspecifically distinct from *D. lineatus*, but if the specimens cited in literature are correctly identified, the ranges of the two forms overlap over a large area. The interrelationships of the *lineatus-erythrops-schulzi* group are quite involved and require additional field study.

Southern Brazil in states of São Paulo, Paraná and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.

Genus **ASYNDESMUS** Coues

Asyndesmus Coues, Proc. Acad. Nat. Sci. Philadelphia, 1866, p. 55. Type, by original designation, *Picus torquatus* Wilson = *Picus lewis* G. R. Gray.

cf. Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 114–117.

Asyndesmus lewis (G. R. Gray)

Picus torquatus Wilson, Am. Orn., 3, 1811, p. 31, pl. 20, f. 3.[1] (No locality = Montana, lat. 46° N.) Not of Boddaert, 1783.

Picus Lewis "Drap." G. R. Gray, Gen. Bds., 3, 1849, app., p. 22. New name for *Picus torquatus* Wilson, preoccupied.

Asyndesmus lewisi Riley, Proc. Biol. Soc. Washington, 18, 1905, p. 225. New name for *Picus torquatus* Wilson, preoccupied.

Breeds from Vancouver Island, southern British Colombia, northwestern Montana and southwestern South Dakota, south to California, central Arizona and southern New Mexico, extending eastward to northwestern Nebraska and eastern Colorado; migratory in the northern parts of its range and wintering south and east to northern Baja California, California, northern Sonora, southern New Mexico and western Texas.

Genus **MELANERPES** Swainson

Melanerpes Swainson, Fauna Bor.-Am., 2, 1831 (1832), p. 316. Type, by monotypy, *Picus erythrocephalus* Linné.

Centurus Swainson, Classif. Bds., 2, 1837, p. 310. Type, by subsequent designation, *C. carolinus* (L.) = *Picus carolinus* Linné (G. R. Gray, List Gen. Bds., 1840, p. 55.)

Tripsurus Swainson, Classif. Bds., 2, 1837, p. 311. Type, by monotypy, *P. flavifrons* Spix, pl. 52 = *Picus flavifrons* Vieillot.

Linneopicus Malherbe, Nouv. Classif. Picinées 1850, p. 52. Type, by monotypy, *Picus herminieri* Lesson.[2]

Balanosphyra Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 34. Type, by original designation, *Picus formicivorus* Swainson.

Chryserpes W. Miller, Bull. Am. Mus. Nat. Hist., 34, 1915, p. 517. Type, by original designation, *Picus striatus* P. L. S. Müller.

[1] The plate is lettered "L. Woodpecker".

[2] See Richmond, Proc. U. S. Nat. Mus., 53, 1917, p. 599.

cf. Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 417–418 (Melanerpes); 418–426 Centurus); 426 (Chryserpes); 426–429 (Balanosphyra); 429 (Linneopicus); 430–432 (Tripsurus).

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 41–48 (Melanerpes); 48–100 (Centurus); 100–112 (Balanosphyra); 112–113 (Linneopicus); 117–124 (Tripsurus).

Wetmore, Proc. U.S. Nat. Mus., **93**, 1943, p. 273–277 (races of *aurifrons*).

Melanerpes erythrocephalus caurinus Brodkorb

Melanerpes erythrophthalmus Silloway, Bull. Fergus County [Montana] Free High School, no. 1, 1903, p. 36. (Fergus Co., Montana.) *Lapsus*

Melanerpes erythrocephalus erythrophthalmus Oberholser, Canadian Field Nat., **33**, 1919, p. 48. (Lewiston, Fergus Co., Montana, *ex* Silloway.)

Melanerpes erythrocephalus caurinus Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 303, 1935, p. 2. (Lodgepole Creek, 2 miles northwest of Chappell, Duel Co., Nebraska.)

Breeds from about the International boundary from north-central Montana to eastern North Dakota southward through eastern Wyoming, western Nebraska, eastern Colorado to northern New Mexico. Partially migratory in the northern part of its range.

Melanerpes erythrocephalus erythrocephalus (Linné)

Picus erythrocephalus Linné, Syst. Nat., ed. 10, **1**, 1758, p. 113. (America = South Carolina.)

Breeds from southern Manitoba, southern Ontario, New York and New England (rare and local east of the Hudson and Delaware rivers) south to the Gulf coast and Florida, west to Minnesota, eastern Nebraska, eastern Kansas and central Texas. Irregularly migratory in the northern part of its range.

Melanerpes portoricensis (Daudin)

Picus portoricensis Daudin, Ann. Mus. d'Hist. Nat. [Paris], **2**, 1803, p. 286, pl. 51.[1] (Puerto Rico.)

Puerto Rico.

Melanerpes herminieri (Lesson)

Picus Herminieri Lesson, Traité d'Orn., livr. 3, 1830, p. 228. (North America, error = Guadeloupe, Lesser Antilles.)

Island of Guadeloupe, Lesser Antilles.

[1] The plate is lettered "Pic de Portorico".

Melanerpes formicivorus bairdi Ridgway

Melanerpes formicivorus bairdi Ridgway, Bull. U.S. Nat. Mus., **21**, 1881, p. 85. (California; type from Petaluma, Sonoma Co.)

Pacific coast region of the United States from southwestern Oregon to southern California.

Melanerpes formicivorus martirensis (Grinnell and Swarth)

Balanosphyra formicivora martirensis Grinnell and Swarth, Condor, **28**, 1926, p. 176, f. 48c. (La Jolla, 6200 feet, Sierra San Pedro Mártir, Baja California.)

Baja California, chiefly on the western slopes of the Sierra San Pedro Mártir, north nearly to the United States boundary and south to about lat. 31° N.

Melanerpes formicivorus angustifrons Baird

Melanerpes formicivorus var. *angustifrons* Baird, in Cooper's Orn. Cal., **1**, 1870, p. 405. (Cape San Lucas, Baja California.)

Mountains of the Cape district of Baja California.

Melanerpes formicivorus formicivorus (Swainson)

Picus formicivorus Swainson, Philos. Mag. (n.s.), **1**, 1827, p. 439. (Temiscáltepec, México.)

?Melanerpes xantholarynx Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 384, pl. DCXLIII, figs. 4293–94. (Mexico?) The type is unique; perhaps a partial albino.

Melanerpes formicivorus aculeatus Mearns, Auk, **7**, 1890, p. 249. (Squaw Peak, central Arizona.)

[*Balanosphyra formicivora*] *mearnsi* van Rossem, Bull. Mus. Comp. Zoöl., **77**, 1934, p. 444, in text. (Mountains of southern Arizona.) New name for *M. f. aculeatus* Mearns, *lapsus*.

Arizona, New Mexico, western and south-central Texas, south to Oaxaca, Puebla and Veracruz.

?Melanerpes formicivorus lineatus (Dickey and van Rossem)

Balanosphyra formicivora lineata Dickey and van Rossem, Proc. Biol. Soc. Washington, **40**, 1927, p. 1. (Mt. Cacaguatique, 3800 feet, Dept. San Miguel, El Salvador.)

Southern Chiapas, Guatemala, western British Honduras, Honduras, El Salvador and northern Nicaragua. Doubtfully distinct from *M. f. albeolus*.

Melanerpes formicivorus albeolus Todd

Melanerpes formicivorus albeolus Todd, Proc. Biol. Soc. Wash-

ington, 23, 1910, p. 153. (Near Manatee, British Honduras.)

Coast region of British Honduras.

Melanerpes formicivorus striatipectus Ridgway

Melanerpes formicivorus var. *striatipectus* Ridgway, in Baird, Brewer and Ridgway, Hist. No. Am. Bds., 2, 1874, p. 561, note. (Middle America south of Orizaba and Mirador; type from Birrís, Costa Rica.)

Highlands of Costa Rica and western Panamá.

Melanerpes formicivorus flavigula (Malherbe)

Melampicos flavigula Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 542. (No locality = Colombia.)

Subtropical zone of the Andes of Colombia.

Melanerpes hypopolius uropygialis (Baird)

Centurus uropygialis Baird, Proc. Acad. Nat. Sci. Philadelphia, 7, 1854, p. 120. (Bill Williams Fork of Colorado River, New Mexico, *i.e.* Arizona.)

Southern Arizona (except lower Colorado valley) and southwestern New Mexico, south to northern and central Sonora.

Melanerpes hypopolius albescens (van Rossem)

Centurus uropygialis albescens van Rossem, Condor, 44, 1942, p. 22. (Laguna Dam, lower Colorado River, Imperial Co., California.)

Imperial Valley in California and the Colorado Valley from southern Nevada to northwestern Sonora.

Melanerpes hypopolius cardonensis (Grinnell)

Centurus uropygialis cardonensis Grinnell, Condor, 29, 1927, p. 168. (Cañon San Juan de Dios, 10 miles east of El Rosario, lat. 30° N, Baja California.)

Central part of the Baja California peninsula, north on the east side to about lat. 32° N.

Melanerpes hypopolius brewsteri (Ridgway)

Centurus uropygialis brewsteri Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 32. (Santiago, Baja California.)

Baja California from about lat. 28° 30′ N., southward.

Melanerpes hypopolius fuscescens (van Rossem)

Centurus uropygialis fuscescens van Rossem, Bull. Mus. Comp. Zoöl., 77, 1934, p. 410. (Chinobampo, Sonora.)

Southwestern Sonora south to northern Sinaloa and east to southwestern Chihuahua.

Melanerpes hypopolius tiburonensis (van Rossem)

Centurus uropygialis tiburonensis van Rossem, Condor, **44**, 1942, p. 22. (Petrel Bay, Tiburón Island.)

Confined to Tiburón Island in the Gulf of California off the coast of Sonora.

Melanerpes hypopolius sulfuriventer (Reichenbach)

Centurus sulfuriventer Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 410, pl. DCLXIV, figs. 4401, 4402. (México, = central-western Mexico *apud* van Rossem.)

Western México in states of Sinaloa, Nayarít, Durango, Jalisco, Zacatecas and Aguas Calientes.

Melanerpes hypopolius hypopolius (Wagler)

Picus hypopolius Wagler, Isis von Oken, **22**, 1829, col. 514. (México; types from Tehuacán and Tecuapán, Puebla.)

México in states of Puebla, México, Morelos, Guerrero and Oaxaca.

Melanerpes carolinus zebra (Boddaert)

Picus zebra Boddaert, Table Pl. enlum., 1783, p. 43. (Louisiana, *ex* Daubenton, pl. 692; restricted to Baton Rouge, Louisiana by Burleigh and Lowery, 1944.)

Central United States in the Mississippi drainage area from southeastern South Dakota and Michigan to the Gulf of Mexico and west to central Texas.

Melanerpes carolinus carolinus (Linné)

Picus carolinus Linné, Syst. Nat., ed. 10, **1**, 1758, p. 113. (North America = South Carolina.)

Eastern United States, chiefly Atlantic drainage, from western New York, southern Pennsylvania and Delaware to the central part of the Florida peninsula.

Melanerpes carolinus perplexus (Burleigh and Lowery)

Centurus carolinus perplexus Burleigh and Lowery, Occ. Papers Mus. Zool. Louisiana State Univ., no. 17, 1944, p. 298. (Cape Sable, near Flamingo, Munroe Co., Florida.)

Southern part of the Florida peninsula, north to about Charlotte Harbor; Florida Keys.

Melanerpes aurifrons polygrammus (Cabanis)

Centurus polygrammus Cabanis, Journ. f. Orn., **10**, 1862, p. 326. (San Bartolo, Tehuantepec.)

Pacific slope of southwestern México from southeastern Oaxaca to western Chiapas.

Melanerpes aurifrons frontalis Nelson

Melanerpes frontalis Nelson, Auk, **17**, 1900, p. 257. (San Vicente, Chiapas.)

Chiapas, except extreme western and northern; northwestern Guatemala (?).

Melanerpes aurifrons aurifrons (Wagler)

Picus Aurifrons Wagler, Isis von Oken, **22**, 1829, col. 512. ("México" = Hidalgo.)

The greater part of Texas (except Big Bend region) and southward over northern and central México to Jalisco, Michoacán, México and Tamaulipas (except southern).

Melanerpes aurifrons incanescens (Todd)

Centurus aurifrons incanescens Todd, Ann. Carnegie Mus., **30**, 1946, p. 298. (Twelve miles south of Marathon, Brewster Co., Texas.)

Big Bend region of western Texas.

Melanerpes aurifrons grateloupensis (Lesson)

Picus Grateloupensis Lesson, Rev. Zool., 1839, p. 41. (México.)

Eastern México from extreme southern Tamaulipas and southeastern San Luís Potosí south to central Veracruz and eastern Puebla.

Melanerpes aurifrons veraecrucis Nelson

Melanerpes dubius verœcrucis Nelson, Auk, **17**, 1900, p. 259. (Coatzacoalcos, Veracruz.)

Southeastern Veracruz to northern Chiapas, western Campeche, Tabasco and adjacent parts of Guatemala.

Melanerpes aurifrons dubius (Cabot)

Picus dubius Cabot, Proc. Boston Soc. Nat. Hist., **1**, 1844, p. 164. (Yucatán; type from Uxmal.)

Eastern Campeche and Yucatán to Petén and British Honduras.

Melanerpes aurifrons leei (Ridgway)

Centurus leei Ridgway, Proc. Biol. Soc. Washington, **3**, 1885, p. 22. (Cozumel Island.)

Mecos and Cozumel Island; Mujeres Island (?).

Melanerpes aurifrons santacruzi (Bonaparte)

Centurus Santa Cruzi Bonaparte, Proc. Zool. Soc. London, pt. 5, 1837 (1838), p. 116. (Guatemala.)

Melanerpes santacruzi fumosus Nelson, Auk, **17**, 1900, p. 258. Huehuetan, Chiapas.)

Southwestern Chiapas south through central and eastern Guatemala to western Honduras, El Salvador and northern Nicaragua.

Melanerpes aurifrons pauper (Ridgway)

Centurus santacruzi pauper Ridgway, Proc. U.S. Nat. Mus., **10**, 1888, p. 582. (Truxillo, Honduras.)

Caribbean slope of Honduras.

Melanerpes aurifrons insulanus (Bond)

Centurus santa-cruzi insulanus Bond, Proc. Acad. Nat. Sci. Philadelphia, **88**, 1936, p. 360. (Utilla Island.)

Confined to Utilia Island, Bay Islands, Gulf of Honduras.

Melanerpes aurifrons canescens (Salvin)

Centurus canescens Salvin, Ibis, 1889, p. 370. (Ruatan Island.)

Islands of Ruatan and Barburat [Barbareta].

Melanerpes aurifrons hoffmannii (Cabanis)

Centurus Hoffmannii Cabanis, Journ. f. Orn., **10**, 1862, p. 322. (Costa Rica.)

Nicaragua and the central plateau and Pacific slope of Costa Rica.

Melanerpes chrysogenys chrysogenys (Vigors)

Picus chrysogenys Vigors, in Zool. Beechey's Voy., 1839, p. 24. (No locality, but either Mazatlan Sinaloa or San Blas or Tepíc, Nayarít.) [1]

Western México in states of Sinaloa and Nayarít.

Melanerpes chrysogenys flavinuchus (Ridgway)

Centurus chrysogenys flavinuchus Ridgway, Proc. Biol. Soc. Washington, **24**, 1911, p. 32. (Acapulco, Guerrero.)

Western México in states of Jalisco, Colima, Morelos, Guerrero and Oaxaca.

Melanerpes superciliaris bahamensis (Cory)

Centurus bahamensis Cory, Auk, **9**, 1892, p. 270. (Great Bahama Island.)

Bahama Islands: Great Bahama.

Melanerpes superciliaris nyeanus (Ridgway)

Centurus nyeanus Ridgway, Auk, **3**, 1886, p. 336. (Watling's Island.)

Bahama Islands: Watling's Island.

[1] cf. Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 90, note *b*.

Melanerpes superciliaris blakei (Ridgway)

Centurus blakei Ridgway, Auk, 3, 1886, p. 337. (Abaco Island.)

Bahama Islands: Abaco.

Melanerpes superciliaris superciliaris (Temminck)

Picus superciliaris Temminck, Pl. col., livr. 73, 1827, pl. 433. (Cuba.)

Island of Cuba.

Melanerpes superciliaris murceus (Bangs)

Centurus superciliaris murceus Bangs, Proc. Biol. Soc. Washington, 23, 1910, p. 173. (San Juan, Isle of Pines.)

Centurus superciliaris merceus Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 419. *Lapsus.*

Isle of Pines.

Melanerpes caymanensis (Cory)

Centurus caymanensis Cory, Auk, 3, 1886, p. 499. (Grand Cayman.)

Island of Grand Cayman.

Melanerpes radiolatus (Wagler)

Picus radiolatus Wagler, Syst. Av., 1827, Picus, sp. 39. (Jamaica.)

Island of Jamaica.

Melanerpes striatus (P. L. S. Müller)

Picas [sic] *striatus* P. L. S. Müller, Natursyst., Suppl., 1776, p. 91. (Santo Domingo.)

Island of Hispaniola.

Melanerpes rubricapillus rubricomus nomen nov.

Centurus rubriventris Swainson, Anim. in Menag., 1838 (1837), p. 354. (No locality = Mérida, Yucatan) [1] Not *Picus rubriventris* Vieillot, 1818, which = *Melanerpes flavifrons* (Vieillot), 1818.

Northern part of the Yucatán Peninsula.

Melanerpes rubricapillus pygmaeus (Ridgway)

Centurus rubriventris pygmæus Ridgway, Proc. U.S. Nat. Mus., 8, 1885, p. 576. (Cozumel Island.)

Cozumel Island.

Melanerpes rubricapillus tysoni (Bond)

Centurus rubriventris tysoni Bond, Proc. Acad. Nat. Sci. Phila-

[1] cf Lawrence, Ann. Lyc. Nat. Hist. N.Y., 9, 1868, p. 206.

delphia, **88**, 1936, p. 361. (Bonacca Island, Bay Islands, Gulf of Honduras.)

Confined to Bonacca Island.

Melanerpes rubricapillus costaricensis (Aldrich)

Centurus rubricapillus costaricensis Aldrich, Sci. Publ. Cleveland Mus. Nat. Hist., **7**, 1937, p. 81. (El Pozo, 25 feet, Río Térraba, Puntarenas, Costa Rica.)

Southwestern Costa Rica.

Melanerpes rubricapillus rubricapillus (Cabanis)

Centurus rubricapillus Cabanis, Journ. f. Orn., **10**, 1862, p. 328. (Barranquilla, Colombia.)

Melanerpes Wagleri Salvin and Godman, Biol. Centr.-Am., Aves, **2**, 1895, p. 416. ("Parts of Venezuela and Colombia including the State of Panamá" = Loma del Leon, Canal Zone.)

Melanerpes subelegans neglectus Richmond, Proc. U.S. Nat. Mus., **18**, 1896, p. 668. (Bogotá, Colombia.)

Melanerpes wagleri sanctæ-martæ Bangs, Proc. Biol. Soc. Washington, **12**, 1898, p. 134. (Santa Marta, Colombia.)

Panamá and the Caribbean coast of northern Colombia, extending up the Magdalena River to Chicoral and to western Venezuela (Perijá).

Melanerpes rubricapillus seductus (Bangs)

Malanerpes [sic] *seductus* Bangs, Auk, **18**, 1901, p. 26. (San Miguel Island [now Isla El Rey], Pearl Islands.)

Pearl Islands, where apparently confined to Isla El Rey.

Melanerpes rubricapillus paraguanae (Gilliard)

Centurus subelegans paraguanae Gilliard, Am. Mus. Novit., no. 1071, 1940, p. 7. (Cerro Santa Ana, Paraguaná Peninsula, Venezuela.)

Northwestern Venezuela on the Paraguaná Peninsula and the adjacent mainland of the State of Falcón from Casigua to Cumarebo.

Melanerpes rubricapillus terricolor (Berlepsch)

Centurus terricolor Berlepsch, Ibis, 1880, p. 113. (Orinoco district or Trinidad.)

Northern Venezuela, except parts occupied by *M. r. paraguanae;* islands of Margarita, Trinidad and Tobago.

Melanerpes pucherani perileucus Todd

Melanerpes pucherani perileucus Todd, Proc. Biol. Soc. Washington, **23**, 1910, p. 154. (Near Manatee, British Honduras.)

Southern México in states of Veracruz, Puebla and Oaxaca, south through British Honduras and the Caribbean slope of Guatemala to northern Honduras.

Melanerpes pucherani pucherani (Malherbe)

Zebrapicus Pucherani Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 542. (Tobago, error = Colombia by designation of Hellmayr, Proc. Zool. Soc. London, 1911, p. 1188.)

Southeastern Honduras, Nicaragua, eastern Costa Rica, Panamá, the Pacific slope and lower Cauca Valley in Colombia, and western Ecuador.

Melanerpes chrysauchen chrysauchen Salvin

Melanerpes chrysauchen Salvin, Proc. Zool. Soc. London, 1870, p. 213. (Bogaba [Chiriquí], Panamá.)

Southwestern Costa Rica and the Pacific slope of western Panamá.

Melanerpes chrysauchen pulcher Sclater

Melanerpes pulcher Sclater, Proc. Zool. Soc. London, 1870, p. 330. (Near Bogotá, Colombia.)

Northern Colombia in depts. of Antioquia, Santander and Boyacá; Bogotá trade skins.[1]

Melanerpes flavifrons flavifrons (Vieillot)

Picus flavifrons Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 75. (Brazil.)

South-central Brazil in states of Goiáz, Minas Gerais, Baía, Espirito Santo and Rio de Janeiro.

Melanerpes flavifrons rubriventris (Vieillot)

Picus rubriventris Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 103. (Paraguay, *ex* Azara.)

Southeastern Brazil in states of São Paulo, Paraná, Santa Catarina, Rio Grande do Sul and southeastern Mato Grosso; northeastern Argentina; Paraguay.

Melanerpes cruentatus extensus (Todd)

Tripsurus cruentatus extensus Todd, Ann. Carnegie Mus., **25**, 1937, p. 251. (Arimã, Rio Purús, Brazil.)

Tropical South America east of the Andes to Venezuela and northwestern and western Brazil, south to Perú, northeastern Bolivia and the Rio Madeira.

[1] Goodfellow's record (Ibis, 1902, p. 210) for this bird in northwestern Ecuador refers to *M. p. pucherani, fide* Chapman, 1926, p. 362.

Melanerpes cruentatus cruentatus (Boddaert)

Picus cruentatus Boddaert, Table Pl. enlum., 1783, p. 43. (Cayenne, *ex* Daubenton, pl. 694, f. 2.)

The Guianas and the Pará region of eastern Brazil.

NOTE. *Melanerpes hargitti* Du Bois, Syn. Av., **1**, fasc. 1, 1899, p. 68, pl. 2, f. 2. (No locality.) Based on *Melanerpes sp. inc.* Dubois, Proc. Zool. Soc. London, 1897, p. 783, appears to be a hybrid, *M. c. cruentatus* x *M. rubrifrons.*

Melanerpes rubrifrons (Spix)

Picus rubrifrons Spix, Av. Bras., **1**, 1824, p. 61, pl. 55, figs. 1, 2. (Pará.)

Eastern Venezuela, the Guianas and northern Brazil.

Genus **LEUCONERPES** Swainson

Leuconerpes Swainson, Classif. Bds., **2**, 1837, p. 310. Type, by monotypy, *L. candidus,* Zool. Ill. pl. 38 = *Picus candidus* Otto.

cf. Gyldenstolpe, K. Svenska Vet. Akad. Handl. (3), **23**, 1945, no. 1, p. 127–128.

Steullet and Deautier, Obra Cincuentenario Mus. de la Plata, **1**, 5ª entr., 1946, p. 950–952.

Leuconerpes candidus (Otto)

Picus candidus Otto, Buffon's Naturg. Vögel, **23**, 1796, p. 191. (Cayenne; not known to occur at present.)

Campo region of Brazil in states of Amazonas, Pará (including islands of Mexiana and Marajó), Maranhão, Piauí, Baía, Espirito Santo, Minas Gerais, Goiáz, Mato Grosso, Rio de Janeiro, São Paulo; central Bolivia; Paraguay; Uruguay; northern Argentina in provs. of Jujuy, Salta, Formosa, Chaco, Tucumán, Santiago del Estero, La Rioja, San Luis, Córdoba, Santa Fé, Misiones, Corrientes, Entre Ríos and northern Buenos Aires.

Genus **SPHYRAPICUS** Baird

Sphyrapicus Baird, in Baird, Cassin and Lawrence, Rept. Expl. and Surv. R. R. Pacific, **9**, 1858, p. xviii, xxviii, 80, 101. Type, by original designation, *Picus varius* Linné.

cf. Am. Orn. Union, Checklist, ed. 4, 1931, p. 192–194.

Grinnell and Miller, Pacific Coast Avif., no. 27, 1944, p. 234–238.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 272–289.

Wetmore, Proc. U.S. Nat. Mus., **86**, 1939, p. 193–195.

Sphyrapicus varius ruber (Gmelin)

Picus ruber Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 429. (Cayenne; error = Nootka Sound, British Columbia.) [1]

Picus ruber notkensis G. A. Suckow, Aufangsgr. Naturg. Thiere, **2**, 1800, p. 535. (Nootka Sound, British Columbia.)

Breeds from southeastern Alaska southward in the mountains to western Oregon; Queen Charlotte Islands, Vancouver Island. Winters in the southern part of its range.

Sphyrapicus varius daggetti Grinnell

Sphyrapicus ruber auct. not *Picus ruber* Gmelin.

Sphyrapicus varius daggetti Grinnell, Condor, **3**, 1901, p. 12. (Pasadena, Los Angeles Co., California.)

Mountains of southern Oregon southward into northern California to Mendocino County and along the Sierra Nevada to Kern County, extending into extreme western Nevada and recurring on the highest mountains of southern California from Mt. Pinos to the San Jacinto Mountains.

Sphyrapicus varius nuchalis Baird

Sphyrapicus varius var. *nuchalis* Baird, in Baird, Cassin and Lawrence, Rept. Expl. and Survey R. R. Pacific, **9**, 1858, p. xxviii, p. 103. (Southern Rocky Mts. = Mimbres River, New Mexico.)

Breeds in the mountains (east of the Cascade ranges) from central British Columbia, and southern Alberta south to extreme northeastern California, Arizona, central New Mexico and western Texas; winters at lower elevations and southward to west-central México and all Baja California.

Sphyrapicus varius varius (Linné)

Picus varius Linné, Syst. Nat., ed. 12, **1**, 1766, p. 176. (North America = South Carolina *ex* Catesby.)

Breeds from Manitoba, southern Quebec and Newfoundland, south to central Missouri, central Indiana, northern Ohio, northern New York and northern New England, extending westward through central Alberta and central Mackenzie and southward in the mountains to Massachusetts and North Carolina. Winters from the southern part of its breeding range to the Bahamas, Greater Antilles and western Panamá.

Sphyrapicus thyroideus thyroideus (Cassin)

Picus thyroideus Cassin, Proc. Acad. Nat. Sci. Philadelphia, **5**, 1851, p. 349. (California, type from Georgetown, twelve miles from Sutter's Mill, Eldorado Co.)

[1] Swarth, Univ. Cal. Publ. Zool., **10**, 1912, p. 34.

Breeds from southern British Columbia (Okanagan region), southward in the mountains through west-central Washington, Oregon eastward from the summit of the Cascades, northern California and the entire length of the Sierra Nevada in California and the western margin of Nevada, recurring in the highest ranges of southern California to the San Jacinto Mountains. Chiefly resident, but descending to lower elevations in winter and south to northern Baja California.

Sphyrapicus thyroideus nataliae (Malherbe)

Picus Nataliae Malherbe, Journ. f. Orn., 2, 1854, p. 171. (México.)

Breeds from southeastern British Columbia (Kootenay), south in the mountains of Idaho, western Montana, Wyoming, Nevada (except Sierra Nevada), Utah and Colorado, to central Arizona and northern New Mexico. Winters north to Arizona, New Mexico and central Texas and south to Jalisco and Durango.

Genus **TRICHOPICUS** Bonaparte

Trichopicus Bonaparte, Ateneo Italiano, 2, 1854, p. 123. (Consp. Vol. Zygodact., p. 8.) Type, by subsequent designation, *Picus cactorum* d'Orbigny. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 91.)

cf. Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 10 (in key and note b).

Steullet and Deautier, Obra Cincuentenario Mus. de la Plata, 1, 5ª entr., 1946, p. 987–991.

Trichopicus cactorum (d'Orbigny)

Picus cactorum d'Orbigny, Voy. Am. Mérid., 4, Ois., livr. 51, 1840, pl. 62, f. 2; livr. 89, 1847, p. 378. (Near Chaluani and Chilon, Mizqué, Bolivia.)

Trichopicus cactorum parvus Brodkorb, Proc. Biol. Soc. Washington, 54, 1941, p. 23. (Km. 265, west of Puerto Casado, Paraguay.)

Southern Perú, Bolivia, western Paraguay, Uruguay, and Argentina south to the provs. of La Rioja, Córdoba and Entre Ríos.

Genus **VENILIORNIS** Bonaparte

Veniliornis Bonaparte, Ateneo Italiano, 2, 1854, p. 125. (Consp. Vol. Zygodact., p. 10, no. 21.) Type, by subsequent designation, *Picus fumigatus* d'Orbigny. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)

Eleopicus Bonaparte, Ateneo Italiano, 2, 1854, p. 125. (Consp.

Vol. Zygodact., p. 10, no. 21 b.) Type, by subsequent designation, *Picus olivinus* Natterer. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)

Capnopicus Bonaparte, Ateneo Italiano, **2**, 1854, p. 125. (Consp. Vol. Zygodact., p. 10, no. 22.) Type, by subsequent designation, *Picus fumigatus* d'Orbigny. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)

Callipicus Bonaparte, Ateneo Italiano, **2**, May, 1854, p. 125. (Consp. Vol. Zygodact., p. 10, no. 31.) (Type, by monotypy, *Picus callonotus* Waterhouse.

Phaionerpes Reichenbach, Handb. spec. Orn., cont. xii, Oct. 1854, Scansoriae c Picinae, p. 356. Type, by subsequent designation, *Picus fumigatus* d'Orbigny. (Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 337.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 351–353; **55**, 1926, p. 362–366.

Gyldenstolpe, K. Svenska Vet. Akad. Handl., **23**, 1945, no. **1**, p. 133–136.

Pinto, Rev. Mus. Paulista, **22**, 1938, p. 354–357.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 185–194.

Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 1–12.

Veniliornis fumigatus oleagineus (Reichenbach)

Picus oleagineus Lichtenstein, Preiss-Verzeichn. Säugeth. Vög. Mexico gesam., 1830, p. 1. (México.) *Nomen nudum.*

Chloronerpes (*Phaionerpes*) *oleagineus* Reichenbach (ex Lichtenstein), Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 356, pl. DCLXXV, f. 4467–68. (Papantla, Veracruz.) First description.

Eastern México in states of San Luís Potosí, northern Veracruz, México and Puebla.

Veniliornis fumigatus sanguinolentus (Sclater)

Chloronerpes sanguinolentus Sclater, Proc. Zool. Soc. London, pt. 27, 1859, p. 60, pl. 151. (Omoa, Honduras.)

Oaxaca and southern Veracruz, southward over Central America to western Panamá.

Veniliornis fumigatus exsul Todd

Veniliornis oleaginus exsul Todd, Proc. Biol. Soc. Washington, **33**, 1920, p. 74. (Sierra Nevada de Santa Marta, 6000 feet, Colombia.)

Northern Colombia in the subtropical zone of the Santa Marta Mts.

Veniliornis fumigatus reichenbachi (Cabanis and Heine)

Phaeonerpes Reichenbachi Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 141. (Caracas, Venezuela.)

Veniliornis oleaginus exiguus Todd, Proc. Biol. Soc. Washington, 29, 1916, p. 97. (La Cumbre de Valencia, Venezuela.)

Mountains of northern Venezuela.

Veniliornis fumigatus tectricialis Chapman

Veniliornis oleaginus tectricialis Chapman, Am. Mus. Novit., no. 191, 1925, p. 6. (Mt. Turumiquire, 7900 feet, Venezuela.)

Mountains of northeastern Venezuela.

Veniliornis fumigatus fumigatus (d'Orbigny)

Picus fumigatus d'Orbigny, Voy. Am. Mérid., 4, Ois., livr. 51, 1840, pl. 65, f. 1; livr. 89, 1847, p. 380. (Province of Corrientes, Argentina in lat. 28° S., and Santa Cruz de la Sierra and Province of Chiquitos in Bolivia = Yungas, Bolivia.)

Veniliornis oleaginus aureus Chapman, Bull. Am. Mus. Nat. Hist., 33, 1914, p. 612. (La Sierra, 6800 feet, Central Andes south of Popayán, Colombia.)

Andes of Mérida, Venezuela; Western Andes and west slopes of the Central Andes of Colombia south through the subtropical zone of eastern Ecuador, Perú and Bolivia.

Veniliornis fumigatus obscuratus Chapman

Veniliornis oleaginus obscuratus Chapman, Am. Mus. Novit., no. 250, 1927, p. 1. (Chugur, 9000 feet, 40 miles northwest of Cajamarca, Perú.)

Northwestern Perú, west of the Western Andes.

Veniliornis spilogaster (Wagler)

Picus Spilogaster Wagler, Syst. Av., 1827, Picus, sp. 59. (Brazil and Paraguay.)

Dendrobates guttatus W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 52. (Río Alto Paraná, Paraguay.)

Southern Brazil in southeastern Minas Gerais, Rio de Janeiro, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Uruguay; Paraguay; northeastern Argentina in Misiones and Entre Ríos.

Veniliornis passerinus fidelis (Hargitt)

Dendrobates fidelis Hargitt, Ibis, 1889, p. 59. (Bogotá.) Col. pl., Cat. Bds. Brit. Mus., 18, pl. 7.

Eastern Colombia and the upper Orinoco; western Venezuela in State of Táchira.

Veniliornis passerinus modestus Zimmer

Veniliornis passerinus modestus Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 3. (Caicara, Río Orinoco, Venezuela.)

Middle reaches of the Orinoco valley in Venezuela.

Veniliornis passerinus diversus Zimmer

Veniliornis passerinus diversus Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 2. (Frechal, Rio Surumú, Brazil.)

Extreme northern Brazil on the Rio Surumú; a specimen from near Itacoatiará on the north bank of the middle Amazon is referred here by Gyldenstolpe, *antea,* p. 135.

Veniliornis passerinus agilis (Cabanis and Heine)

Campias agilis Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 147. (Río Napo.)

Eastern Ecuador, eastern Perú, western Brazil on the upper Rio Purús, and northern Bolivia in depts. of La Paz and El Beni.

Veniliornis passerinus insignis Zimmer

Veniliornis passerinus insignis Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 2. (Igarape Auará, right bank of the lower Rio Madeira, Brazil.)

South bank of the Amazon on both sides of the Rio Madeira and west to São Paulo de Olivença.

Veniliornis passerinus tapajozensis Gyldenstolpe

Veniliornis passerinus tapajozensis Gyldenstolpe, Ark. Zool., **33 B**, 1941, no. 12, p. 7. (Santarem, Rio Tapajóz, Brazil.)

Both banks of the Amazon near its junction with the Tapajóz.

Veniliornis passerinus saturatus Todd

Veniliornis passerinus saturatus Todd, Ann. Carnegie Mus., **30**, 1946, p. 310. (Mana, French Guiana.)

Extreme western Cayenne.

Veniliornis passerinus passerinus (Linné)

Picus passerinus Linné, Syst. Nat., ed. 12, **1**, 1766, p. 174. (Dominica, error = Cayenne, by designation of Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 93.)

The Guianas, northeastern Brazil west to the Rio Xingú; Marajó Island.

Veniliornis passerinus taenionotus (Reichenbach)

Chloronerpes taenionotus Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 354, pl. DCXXV, f. 4164–65. (Interior of Brazil.)

Veniliornis tænionotus cearæ Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1915, p. 306. (Serra Baturite, Ceará, Brazil.)

Eastern Brazil in states of Maranhão, Piauí, Ceará, Pernambuco and eastern Baía.

Veniliornis passerinus transfluvialis Hellmayr

Veniliornis passerinus transfluvialis Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 413. (Macaco Secco, near Andarahy, Baía, Brazil.)

Brazil in northern Goiáz and western Baía.

Veniliornis passerinus olivinus (Natterer and Malherbe)

Picus olivinus Natterer and Malherbe, Mém. Soc. Roy. Sci. Liége, 2, 1845, p. 67. (Brazil; type from Cuyabá, Mato Grosso.)

Picus murinus Natterer and Malherbe, Mém. Soc. Roy. Sci. Liége, 2, 1845, p. 67. (Brazil) = imm ♂ *fide* Hellmayr, Nov. Zool., 16, 1908, p. 81.

Southern Bolivia, Mato Grosso, southern Goiáz and Minas Gerais, south to the Argentine Chaco, Paraguay and Paraná.

Veniliornis frontalis (Cabanis)

Cloronerpes [sic] (*Campias*) *frontalis* Cabanis, Journ. f. Orn., 31, 1883, p. 110. (Tucumán.)

Northwestern Argentina in provs. of Jujuy, Salta, Tucumán and Chaco.

Veniliornis maculifrons (Spix)

Picus maculifrons Spix, Av. Bras., 1, 1824, p. 62, pl. 56, f. 1. (Rio de Janeiro and Pará.)

Southeastern Brazil in states of Minas Gerais, Espirito Santo and Rio de Janeiro.

Veniliornis (cassini ?) chocoensis Todd

Veniliornis chocoensis Todd, Proc. Biol. Soc. Washington, 32, 1919, p. 116. (Malagita, Chocó, Colombia.)

Known only from two specimens; the type, and one other from Potedo in western Colombia.

Veniliornis (cassini ?) cassini (Malherbe)

Mesopicus cassini Malherbe, Monogr. Picidées, 2 1862, p. 55; 3, pl. 58, figs. 2, 3, 4. (Brazil or Colombia; Cayenne substituted by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 93.)

Venezuela from the Caura and lower Orinoco valleys east to the Guianas and south to northern Brazil on the upper Rio Negro and between the Jamundá and the Jary.

Veniliornis affinis orenocensis Berlepsch and Hartert

Veniliornis orenocensis Berlepsch and Hartert, Nov. Zool., **9**, 1902, p. 93. (Nericagua and Munduapo, Venezuela.)

Eastern Colombia and the upper and middle Orinoco Valley in Venezuela, south to the north bank of the Solimões and the upper Rio Negro.

Veniliornis affinis hilaris (Cabanis and Heine) [1]

Campias hilaris Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 154. (Perú, restricted to the Chanchamayo Valley by Zimmer, *antea,* p. 10.)

Eastern Ecuador and eastern Perú to western Brazil south of the Solimões east to the upper Rio Madeira; northern Bolivia.

Veniliornis affinis ruficeps (Spix)

Picus ruficeps Spix, Av. Bras., **1**, 1824, p. 63, pl. 56, figs. 2 and 3. (Amazon forests = Pará, by designation of Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., **12**, 1929, p. 412.)

Brazil from the lower Rio Madeira eastward to Pernambuco and south to the Machados, the lower Tapajóz and the lower Tocantins.

Veniliornis affinis affinis (Swainson)

Picus affinis Swainson, Zool. Illustr., **2**, 1821–22 (1821), pl. 78. ("Provinces of Bahia and Rio de Janeiro" = Baía.)

Eastern Brazil in states of Baía, Espirito Santo and Rio de Janeiro.

Veniliornis kirkii neglectus Bangs

Veniliornis neglectus Bangs, Proc. New England Zoöl. Cl., **2**, 1901, p. 99. (Divala, Panamá.)

Southwestern Costa Rica and Chiriquí.

Veniliornis kirkii cecilii (Malherbe)

Mesopicos Cecilii Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 538. (Colombia.)

Veniliornis kirkii darienensis Ridgway, Proc. Biol. Soc. Washington, **24**, p. 1911, p. 33. (El Reál, Darién.)

Eastern Panamá, tropical zone of Colombia and western Ecuador.

Veniliornis kirkii continentalis Hellmayr

Veniliornis kirkii continentalis Hellmayr, Nov. Zool., **13**, 1906, p. 39. (Caripé, near Cumaná, Venezuela.)

Western Venezuela (Perijá) and northern Venezuela from Carabobo to Sucre.

[1] Replaces *Veniliornis haematostigma* (Malherbe) of Sharpe's Hand-list, invalid. For details *cf.* Zimmer, *antea,* p. 9-10.

Veniliornis kirkii monticola Hellmayr

Veniliornis kirkii monticola Hellmayr, Verh. Orn. Ges. Bayern, 13, 1918, p. 315. (Mt. Roraima, 5000 feet.)

Confined to Mt. Roraima on the Venezuela-British Guiana border.

Veniliornis kirkii kirkii (Malherbe)

Picus (Chloropicus) Kirkii Malherbe, Rev. Zool., 1845, p. 400. (Tobago.)

Islands of Trinidad and Tobago.

Veniliornis callonotus callonotus (Waterhouse)

Picus callonotus Waterhouse, Proc. Zool. Soc. London, pt. 8, 1840 (1841), p. 182. (Northwest coast of South America = Guayaquil, Ecuador.)

Arid Pacific slope of Ecuador from Esmeraldas to Puna Island.

Veniliornis callonotus major (Berlepsch and Taczanowski)

Chloronerpes callonotus major Berlepsch and Taczanowski, Proc. Zool. Soc. London, 1883 (1884), p. 571. (Tumbez, Guadalupa and Morropere, Perú.)

Arid tropical zone of extreme southwestern Ecuador to the Marañon Valley, Perú.

Veniliornis sanguineus (Lichtenstein)

Picus sanguineus Lichtenstein, Cat. Rer. Nat. rar., 1783, p. 17. (America = Guiana.)

The Guianas; Venezuela (?).[1]

Veniliornis dignus dignus (Sclater and Salvin)

Chloronerpes dignus Sclater and Salvin, Proc. Zool. Soc. London, 1877, p. 20, pl. 1. (Antioquia, Colombia; type from Remedios.)

Subtropical zone of the Andes of Colombia.

Veniliornis dignus baezae Chapman

Veniliornis dignus baezæ Chapman, Am. Mus. Novit., no. 96, 1923, p. 8. (Baeza, 5000 feet, Ecuador.)

Subtropical zone of the Andes of eastern Ecuador.

Veniliornis dignus valdizani (Berlepsch and Stolzmann)

Dendrobates valdizani Berlepsch and Stolzmann, Ibis, 1894, p. 401. (Huacras, 7000 feet, Vitoc, Perú.)

Known only from the type locality in central Perú.

[1] Two specimens from Venezuela are listed in the Cat. Bds. Brit. Mus.; there are no other records, possibly the birds are wrongly labelled.

Veniliornis nigriceps equifasciatus Chapman

Veniliornis nigriceps equifasciatus [sic] Chapman, Bull. Am. Mus. Nat. Hist., **31**, 1912, p. 144. (Santa Isabel, 12000 feet, Quindio Andes, Colombia.)

Humid temperate zone of Ecuador and the Central Andes of Colombia.

Veniliornis nigriceps pectoralis (Berlepsch and Stolzmann)

Dendrobates malherbei pectoralis Berlepsch and Stolzmann, Proc. Zool. Soc. London, 1902, vol. 2, p. 33. (Maraynioc, 13000 feet, Perú.)

Humid temperate zone of the Andes of central Perú.

Veniliornis nigriceps nigriceps (d'Orbigny)

Picus nigriceps d'Orbigny, Voy. Am. Mérid., **4**, Ois., livr. 51, 1840, pl. 65, f. 2; livr. 89, 1847, p. 380. (Palca Grande, Ayupaya, Bolivia.)

Humid temperate zone of the Andes of Bolivia.

Genus **DENDROPICOS** Malherbe

Dendropicos Malherbe, Mém. Acad. Nat. Metz, **30**, 1848–49 (after May 1849), p. 316, 338. Type, by subsequent designation, *Dendropicos lafresnayi* Malherbe. (Sclater, Bull. Brit. Orn. Cl., **42**, 1921, p. 25.)

Erythronerpes Reichenbach, Handb. spec. Orn., cont. xii, Oct. 1854, Scansoriae c Picinae, p. 356. Type, by subsequent designation, *Picus abyssinicus* Salt = *Mesopicus desmursi* Malherbe. (Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 293.)

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 440–447.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 578–586.

C. Grant, Ibis, 1915, p. 456–464.

C. Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., **59**, 1939, p. 52–53.

Roberts, Ann. Transvaal Mus., **16**, 1935, p. 112–117.

Dendropicos fuscescens cosensi C. Grant

Dendropicos fuscescens cosensi C. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 101. (Senegal.)

Known only from the type, which may not have come from Senegal.

Dendropicos fuscescens lafresnayi Malherbe

Dendropicos Lafresnayi Malherbe, Rev. et Mag. Zool. (2), **1**, Nov. 1849, p. 533. (Africa = Aguapim, Gold Coast.)

Dendrocopus guineensis zechi Neumann, Journ. f. Orn., **52**, 1904, p. 400 (Kete-Kretschi, Togoland.)

West Africa from Gambia through all of Upper Guinea to Nigeria.

Dendropicos fuscescens camerunensis (Sharpe)

Dendropicus camerunensis Sharpe, Ibis, 1907, p. 443. (River Ja, Cameroons.)

Dendropicos lafresnayi adamauae Grote, Journ. f. Orn., **71**, 1923, p. 368. (Laro, Garua region, northern Cameroons.)

Cameroons and the Cameroon-Nigerian highlands to the Uelle.

Dendropicos fuscescens sharpii (Oustalet)

Dendropicus Sharpii Oustalet, Nouv. Arch. Mus. Hist. Nat. [Paris] (2), **2**, 1879, p. 62. (Doumé, Ogowé River, Gaboon.)

Gaboon and the southern Congo to the Ubangi River, the Kasai district and Kasongo.

Dendropicos fuscescens loandae C. Grant

Dendropicos lafresnayi loandæ C. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 101. (Luanda, Angola.)

Northern Angola to the Lulua district of the Belgian Congo and extending to the Lualaba River.

Dendropicos fuscescens camacupae Bowen

Dendropicos fuscescens camacupæ Bowen, Proc. Acad. Nat. Sci. Philadelphia, **82**, 1930, p. 89. (Villa General Machado, Angola.)

The Angola plateau and the upper Katanga to the west shore of Lake Tanganyika (north to Tembwe) and Nyasaland; probably also adjacent sections of Northern Rhodesia.

Dendropicos fuscescens stresemanni Grote

Dendropicos guineensis stresemanni Grote, Journ. f. Orn., **70**, 1922, p. 43. (Okaukweyo, South West Africa.)

Ovamboland, northern Damaraland and Ngamiland (?).[1]

Dendropicos fuscescens harei Roberts

Dendropicos hartlaubi harei Roberts, Ann. Transvaal Mus., **10**, 1924, p. 84. (Barkly West.)

Southern Damaraland, Great Namaqualand, western Kalahari and Barkly West.

[1] The ranges of South Africa races of *Dendropicos fuscescens* are adapted from Roberts' 'Birds of South Africa,' 1940, p. 186 where they are briefly outlined but details omitted to the point where *capriviensis* and *stresemanni* are both attributed to 'Ngamiland'; *harei* to 'Damaraland', *stresemanni* to 'northern Damaraland' etc.

Dendropicos fuscescens capriviensis Roberts

Dendropicos fuscescens capriviensis Roberts, Ann. Transvaal Mus., **10**, 1924, p. 84. (Caprivi Corner.)

Southwestern Northern Rhodesia (Machili River) and northern Bechuanaland.

Dendropicos fuscescens transvaalensis Roberts

Dendropicos fuscescens transvaalensis Roberts, Ann. Transvaal Mus., **10**, 1924, p. 83. (Nylstroom [Transvaal].)

The lower elevations of northeastern Transvaal and adjacent parts of western Bechuanaland and Southern Rhodesia in the upper Limpopo Valley.

Dendropicos fuscescens orangensis Roberts

Dendropicos fuscescens orangensis Roberts, Ann. Transvaal Mus., **10**, 1924, p. 83. (Potchefstroom [Transvaal].)

Orange River basin in Transvaal and Orange Free State.

Dendropicos fuscescens intermedius Roberts

Dendropicos fuscescens intermedius Roberts, Ann. Transvaal Mus., **10**, 1924, p. 83. (Weenen, Natal.)

Foot hills of the Drakensberg in Natal and Transvaal.

Dendropicos fuscescens fuscescens (Vieillot) [1]

Picus fuscescens Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 86. (South Africa, based on Levaillant, pl. 253; Grootvaders Bosch [Swellendam dist., Cape Province], selected as type locality by Roberts, 1924, p. 83.)

Southern and eastern Cape Province.

Dendropicos fuscescens natalensis Roberts

Dendropicos hartlaubi natalensis Roberts, Ann. Transvaal Mus., **10**, 1924, p. 84. (Red Hill, Natal.)

Zululand and the low country of eastern Transvaal.

Dendropicos fuscescens noomei Roberts

Dendropicos hartlaubi noomei Roberts, Ann. Transvaal Mus., **10**, 1924, p. 84. (Umbelluzi, south of Delagoa Bay.)

Northeastern Zululand and the Mozambique littoral north to the Limpopo River.

Dendropicos fuscescens hartlaubii Malherbe

Dendropicos Hartlaubii Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 532. (Zanzibar.)

[1] Replaces *Dendropicus cardinalis* (Gmelin) of Sharpe's Hand-list.

East African coastlands from Lamu to southern Mozambique; Island of Zanzibar.

Dendropicos fuscescens massaicus (Neumann)

Dendropicus guineensis massaicus Neumann, Journ. f. Orn., **48**, 1900, p. 206. (Ndala-lani, Lake Nguruman, Kenya Colony.)

Dendropicus guineensis centralis Neumann, Journ. f. Orn., **48**, 1900, p. 206. (Iringa, Tanganyika Territory.)

Interior of East Africa from the Turkwell country to Tanganyika Territory, but not in the highlands west of the Rift Valley.

Dendropicos fuscescens chyulu van Someren

Dendropicos fuscescens chyulu van Someren, Journ. E. Afr. and Uganda Nat. Hist. Soc., **14**, 1939, no. 1–2, p. 48. (Chyulu Range, 6000 feet, Kenya Colony.)

Chyulu Hills.

Dendropicos fuscescens lepidus (Cabanis and Heine)

Ipoctonus lepidus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 118. (Ethiopia.)

Dendropicus simoni Ogilvie-Grant, Bull. Brit. Orn. Cl., **10**, 1900, p. xxxviii (Konduro, Ethiopia.)

Highlands of western Ethiopia, Bahr el Ghazal, central and western Kenya Colony, Uganda, and eastern Belgian Congo to the highlands near Baraka.

Dendropicos fuscescens hemprichii (Ehrenberg)

Picus Hemprichii Ehrenberg, in Hemprich and Ehrenberg, Symb. Phys., Aves [1833], fol. r. (Arkiko, Ethiopia.)

Dendropicus hemprichi albicans Erlanger, Journ. f. Orn., **50**, 1902, p. 258. (Juba.)

Eritrea, Ethiopia (except southwestern), Somaliland and the Northern Frontier Province of Kenya Colony.

Dendropicos stierlingi Reichenow

Dendropicos stierlingi Reichenow, Orn. Monatsb., **9**, 1901, p. 166. (Songea, Tanganyika Territory.)

Region about the northern end of Lake Nyasa and in northern Mozambique.

Dendropicos elachus Oberholser

Picus minutus Temminck, Pl. col., livr. 33, 1823, pl. 197, f. 2. (Senegal and coast of Guinea.) Not *Picus minutus* Latham, 1790.

Dendropicos elachus Oberholser, Proc. Biol. Soc. Washington,

32, 1919, p. 8. (New name for *Picus minutus* Temminck, preoccupied.)

African semi-arid belt from Senegal and Casamance to Aïr, Bornu and Darfur.

Dendropicos abyssinicus (Stanley)

Picus Abyssinicus Anonymous = Stanley, in Salt's Voy. Abyssinia, 1814, app., p. lvi. (Ethiopia.)

Highlands of Ethiopia.

Dendropicos poecilolaemus (Reichenow)

Dendropicus poecilolaemus Reichenow, Orn. Monatsb., **1**, 1893, p. 30. (Sconga, west of Lake Albert.)

Dendropicus nandensis Neumann, Orn. Monatsb., **9**, 1901, p. 184. (Nandi, Kenya Colony.)

Northern Cameroons, Bahr el Ghazal, the Uelle district, Uganda, and the Nandi country in Kenya Colony, extending southward to Mt. Ruwenzori and Rutshuru.

Dendropicos gabonensis (Verreaux and Verreaux)

Dendrobates Gabonensis J. and E. Verreaux, Rev. et Mag. Zool. (2), **3**, 1851, p. 513. (Gaboon.)

Cameroons and Gaboon eastward to the southern Uelle and the Semliki Valley and extending southward into the Kasai.

Dendropicos lugubris lugubris (Hartlaub)

Dendropicus lugubris Hartlaub, Syst. Orn. Westafr., 1857, p. 178. (Aguapim, Gold Coast.)

French Guinea, Sierra Leone, Liberia, Ivory Coast, Gold Coast.

Dendropicos lugubris reichenowi (Sjöstedt)

Dendropicus reichenowi Sjöstedt, Orn. Monatsb., **1**, 1893, p. 138. (Cameroons.)

Bonge district, north of Cameroon Mt.

Genus **DENDROCOPOS** Koch

Dendrocopos Koch,[1] Syst. baierischen Zool., **1**, 1816, p. xxvii, 72, pl. 1A, f. a. Type, by subsequent designation, *D. major* = *Picus major* Linné. (Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 201.)

Dryobates Boie, Isis von Oken, 1826, Bd. 2, col. 977. Type, by monotypy, *Picus pubescens* Linné.

[1] Includes *Hypopicus* Bonaparte, *Dendrocoptes* Cabanis and Heine, *"Liopicus"* [= *Leiopicus*] Bonaparte, *"Iyngipicus"* [= *Yungipicus*] Bonaparte and *Xenopicus* Baird of Sharpe's Hand-list.

Desertipicus Bates and Kinnear, Bull. Brit. Orn. Cl., **55**, 1935, p. 156. Type, by original designation and monotypy, *Desertipicus dorae* Bates and Kinnear.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 29–54. *(Hypopicus, Dryobates, Leiopicus, Yungipicus.)*

Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **13**, 1908, p. 229–254.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 482–495. *(Dyctiopicus, Dryobates);* 496–497 *(Phrenopicus.)*

Delacour, in Delacour and Mayr, Bds. Philippines, 1946, p. 128–149.

Démentiev, Alauda (3), **6**, 1934, p. 428–451 (races of *major*); (3), **9**, 1937, p. 287–289 (races of *minor*).

Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 79–84 (races of *major*); **6**, 1927, p. 60–93 & map (races of *minor*).

Greenway, Auk, **60**, 1943, p. 564–574 (races of *canicapillus*) ——Proc. New England Zoöl. Cl., **24**, 1947, p. 91–100 (Chinese races of *major*).

Handlist Jap. Bds., 3d and rev. ed., 1942, p. 87–93.

Hartert, Vög. pal. Fauna, **2**, 1912, p. 899–928; **3**, 1922, p. 2185–2188; Nachtr. 1, 1923, p. 65–67.

——and Steinbacher, Vög. pal. Fauna, Ergänzungsb., Heft 4, 1935, p. 364–376.

Oberholser, Proc. U. S. Nat. Mus., **40**, 1911, p. 595–621 (races of *villosus*); **41**, 1911, p. 139–159 (races of *scalaris*).

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 194–271.

Sclater, Syst. Av. Ethiop., pt. 1, 1924, p. 300 (Yungipicus, except *stierlingi*).

Voous, On the History of the Distribution of the Genus Dendrocopos [1947], p. 1–142.

Dendrocopos major major (Linné)

Picus major Linné, Syst. Nat., ed. 10, **1**, 1758, p. 114. (Europe = Sweden *ex* Fn. Suec.)

Dryobates major rossicus Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 81. (Ostrov Dubia, near Saratov, Russia.)

Scandinavian Peninsula, Island of Bornholm, the Baltic States, and northern Russia, south to the old gouvernments of Leningrad, Vladimir, Kostroma and probably Vyatka.

Dendrocopos major pinetorum [1] (C. L. Brehm)

Picus pinetorum C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 187. (Coniferous forests of Germany.)

Picus major arduennus Kleinschmidt, Falco, **12**, 1916, p. 12. (Northern France.)

Dryobates major bulgariensis Gengler, Balkanvögel, 1920, p. 139. (Nevscha, Bulgaria.)

Europe, except the parts occupied by other races.

Dendrocopos major anglicus (Hartert)

Dendrocopus major anglicus Hartert, Nov. Zool., **7**, 1900, p. 528. (Horsham, Sussex, England.)

England and Scotland.

Dendrocopos major italiae (Stresemann)

Dryobates major italiae Stresemann, Anz. Orn. Ges. Bayern, no. 2, 1919, p. 9. (Bologna, Italy.)

Dryobates major prealpinus Burg, Weidmann, 1921, no. 6, p. 7. (Switzerland.)

Southern France, the Pyrenees, Switzerland and Italy.

Dendrocopos major parroti (Hartert)

Dendrocopus major parroti Hartert, Orn. Monatsb., **19**, 1911, p. 191. (Corsica.)

Corsica.

Dendrocopos major harterti (Arrigoni)

Dendrocopus major Harterti Arrigoni, Avicula, **6**, 1902, p. 103. (Macomer, Sardinia.)

Dendrocopus sardus Buturlin, Orn. Mitt., **1**, 1910, p. 200. (Sassari, Sardinia.)

Sardinia.

Dendrocopos major hispanus (Schlüter)

Picus major hispanus Schlüter, Falco, **4**, 1908, p. 11. (Sevilla, Spain.)

Portugal and southern Spain.

Dendrocopos major canariensis (König)

Picus (Dendrocopus) canariensis König, Journ. f. Orn., **37**, 1889, p. 263. (Canary Islands = Tenerife, *ex* Journ. f. Orn., **38**, 1890, p. 351.)

Canary Islands: Tenerife.

[1] Not invalidated by *Dendrocopus pinetorum* Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 185. If Brehm had spelled the generic name *Dendrocopos*, invalidation would have been automatic.

Dendrocopos major thanneri (le Roi)

Dendrocopus maior thanneri le Roi, Orn. Monatsb., 19, 1911, p 81. (Gran Canaria.)

Canary Islands: Gran Canaria.

Dendrocopos major mauritanus (C. L. Brehm)

Picus mauritanus, auct. *(Picus lunatus)* C. L. Brehm, Vogelfang, 1855, p. 69. (Spain and northwestern Africa = lowlands of Morocco.)

Coastal lowlands of northern Morocco.

Dendrocopos major lynesi (Harrison)

Dryobates major lynesi Harrison, Bull. Brit. Orn. Cl., 64, 1944, p. 62. (Azrou, 4800 feet, Middle Atlas, central Morocco.)

Morocco in the Middle and High Atlas.

Dendrocopos major numidus (Malherbe)

Picus Numidus Malherbe, Mém. Acad. Roy. Metz, 24, 1843, pt. 2, p. 242. (Province of Bône, Algeria.)

Oak forests of Algeria and Tunisia.

Dendrocopos major candidus (Stresemann)

Dryobates major candidus Stresemann, Anz. Orn. Ges. Bayern, no. 2, 1919, p. 10. (Stefanesci, near Bucharest, Romania.)

? Dryobates major artobolevskii Charlemagne, Journ. Cycle Bio-Zool. [Kiev], 1934, no. 418; Acad. Sci. Ukraine, 1934, no. 4 (8), p. 26. (Ukraine in autumn and winter.)[1]

Romania, Bulgaria and southern Russia.

Dendrocopos major tenuirostris (Buturlin)

Dendrocopus major tenuirostris Buturlin, Ibis, 1906, p. 412. (Kutaisi and Akhaltsikhe, Caucasus.)

Dryobates major kurae Laubmann, Orn. Jarhb., 26, 1915, p. 46. (Kura River, Caucasus.)

Crimea, Caucasus and Transcaucasia.

Dendrocopos major paphlagoniae (Kummerlöwe and Niethammer)

Dryobates maior paphlagoniae Kummerlöwe and Niethammer, Journ. f. Orn., 83, 1935, p. 45. (Ilgaz Dagh, Asia Minor.)

Asia Minor in the mountains north of Ankara.

[1] Believed by its describer to be characterized by a stouter bill than *candidus* and with that organ longer and more slender than *D. m. major;* thought to migrate to the Ukraine from somewhere to the northwest.

Dendrocopos major poelzami (Bogdanov)

Picus poelzami Bogdanov, Verh. Ges. Kasan, **8**, 1879, no. 4, p. 121 [Vög. Kaukasus] (Lenkoran.)

Lenkoran and the mountains of northern Iran.

Dendrocopos major brevirostris (Reichenbach)

Picus brevirostris Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 365, in text, pl. DCXXXIII, fig. 4212. (Irtysh River, Siberia.)

Dendrocopus major mongolus Lönnberg, Ark. Zool., **5**, 1909, no. 9, p. 24. (Northern Mongolia, and southern Transbaicalia; type from Topka, Kentei Mts.)

Dendrocopus major sibiricus Buturlin, Orn. Mitt., **1**, 1910, p. 201. (Eastern Siberia.)

Dendrocopus major kirghizorum Buturlin, Orn. Mitt., **1**, 1910, p. 202. (Semipalatinsk and Irtysh River.)

Northern Russia (Arkhangelsk, northern Vologda and northern Urals) and Siberia north to end of forest zone and east to Amurland, south to the Kirghiz Steppes, southern Altai, Transbaikalia and northern Mongolia.

Dendrocopos major tianshanicus (Buturlin)

Dendrocopus major tianshanicus Buturlin, Orn. Mitt., **1**, 1910, p. 200. (Kamennaia River, near Charkent, Kunges River, and a winter bird from Semipalatinsk.)

Coniferous forests of the central Tien Shan.

Dendrocopos major kamtschaticus (Dybowski)

Picus major kamtschaticus Dybowski, Bull. Soc. Zool. France, **8**, 1883, p. 368. (Birch forests of Kamchatka and on migration to Bering Island.)

Kamchatka.

Dendrocopos major tscherskii (Buturlin)

Dendrocopus japonicus tscherskii Buturlin, Nascha Ochota, July, 1910, p. 53. (Khanka Lake, Ussuriland.)

Ussuriland and Island of Sakhalin.

Dendrocopos major japonicus (Seebohm)

Picus japonicus Seebohm, Ibis, 1883, p. 24, in text (Hakodate [on Hokkaido], Yokohama [on Honshu], "South Yezo" [= Hakodate], Sakhalin and Kurile Islands = Hokkaido.)

Dryobates major seoulensis Kuroda and Mori, Auk, **39**, 1922, p. 364. (Koryo, near Seoul, Chosen.)

Southern Kuriles (Urrupu to Kunashiri), Hokkaido and northeastern Korea.

Dendrocopos major hondoensis (Kuroda)

Dryobates major hondoensis Kuroda, Auk, **38**, 1921, p. 577. (Minami-azumi-gori, Prov. Shinano, Honshu.)

Dryobates major tusimensis Momiyama, Annot. Orn. Orient., **1**, 1927, p. 60, Japanese text, p. 96, English text. (Shimoshima, Tsushima.)

Dryobates major kurosio Momiyama, Kagakuno Nôgyô, **20**, 1939, p. 13. (Hachijô) *Nomen nudum.*

Northern and central Honshu, Seven Islands of Izu (Hachijo, 1 spec.), Tsushima, central and southern Korea.

Dendrocopos major cabanisi (Malherbe)

Picus Cabanisi Malherbe, Journ. f. Orn., 2, 1854, p. 172. (China; restricted to Weihsien, Shantung, by Greenway, 1947.)

Dryobates major renschi Kuroda, Tori, **6**, 1929, p. 61. (Hopeh Province, China.)

Southern Manchuria, and northeastern China in provinces of Hopeh, Honan, Shansi, Shantung, northern Kiangsu and northern Anwhei.

Dendrocopos major mandarinus (Malherbe)

Picus mandarinus Malherbe, Bull. Soc. Hist. Nat. Moselle, 8e cahier, 1857, p. 17. (Whampoa [near Canton], China.)

Dryobates cabanisi cadwaladeri deSchauensee, Proc. Acad. Nat. Sci. Philadelphia, **85**, 1934, p. 371. (Kyuloi, 6000 feet, 20 miles west of Ken Tung, Southern Shan States.)

Southern and southeastern China from Hupeh, southern Anwhei, southern Chekiang, south to Tonkin, northern Laos and extreme southeastern section of the Southern Shan States.

Dendrocopos major beicki (Stresemann)

Dryobates major beicki Stresemann, Orn. Monatsb., **35**, 1927, p. 134. (Lan-hu-kou, Kansu.)

Western China in Province of Kansu, probably also in northern Shensi.

Dendrocopos major stresemanni (Rensch)

Dryobates major stresemanni Rensch, Abh. Ber. Mus. Dresden, **16**, 1924, no. 2, p. 38. (Tsalila, on the Yunnan-Sikang border.)

Dryobates cabanisi stephensoni Stuart Baker, Bull. Brit. Orn. Cl., **46**, 1926, p. 70. (Lichiang Range, Yunnan.)

Western China in western Szechwan, eastern Sikang and northern Kweichow and Yunnan, extending north to about 33° N. and southward into northern Burma.

Dendrocopos major hainanus (Hartert and Hesse)

Dendrocopus cabanisi hainanus Hartert and Hesse, Orn. Monatsb., **19**, 1911, p. 192. (Cheteriang, Hainan.)

Dryobates major akagera Hachisuka, Orn. Soc. Japan, suppl. publ. no. 15, 1939, p. 62. (Mt. Wuchi, Hainan.)

Hainan.

Dendrocopos leucopterus[1] **albipennis** (Buturlin)

Dendrocopus albipennis Buturlin, Semia Okhotnikov, no. 5, 1 April, 1908, p. 108. (Tedzhen, southern Transcaspia.)[2]

Dendrocopus major transcaspius Sarudny, Orn. Monatsb., **16**, Jan (April), 1908, p. 66. (Eastern Transcaspia.)

Southern and eastern Transcaspia in the drainage areas of the Tedzhen, the Murgab, Gerri-ruda, lower and middle Amu Darya, Kabadian River, Kamar-Sarai and Urta Turgai to the Parkhara River.

? Dendrocopos leucopterus jaxartensis (Sarudny)

Dryobates leucopterus albipennis natio *jaxartensis* Sarudny, Izv. Turk. otd. Russ. geogr. O., **16**, 1923, p. 100. (Lower Syr Darya.)

Lower and middle Syr Darya, up the Jany Darya to Chimaz, also the saxaul country of Kyzyl Kum and Barak Island in the Aral Sea. Doubtfully distinct from *D. l. albipennis*.

[1] There is considerable divergence of opinion as to the position of *leucopterus* and its division into geographical races. Hartert in 1912 considered it specifically distinct from *major* and recognized three races; a view which was retained by Hartert and Steinbacher in 1935. Kinnear (Ibis, 1933, p. 683-685) likewise regarded *leucopterus* as specifically distinct. Dementiev in 1934 not only reduces *leucopterus* to the status of a subspecies of *major*, but refuses to recognize any of the additional races recognized by Hartert or the "natios" proposed by Sarudny in 1923. The other extreme is reached by Buturlin in Poln'ii Opredelitel Ptits SSSR, **3**, 1936, p. 198-199 where *leucopterus* is maintained as a species in which are included the two races previously recognized by Hartert plus two of the three "natios" proposed by Sarundny in 1923, making a total of five forms. Stegmann, Orn. Monatsb., **40**, 1935, p. 15-20 points out that where the ranges of *major* and *leucopterus* apparently conflict that the former is the form found in the spruce forest on the mountains and that the latter is confined to the "meadow woods" in the valleys.

[2] For reasons for adopting *albipennis cf* Hartert, Vög. pal. Fauna, **2**, p. 909.

Dendrocopos leucopterus leptorhynchus (Severtzov)

Picus leptorhynchus Severtzov, Ibis, 1875, p. 487. (Turkestan = Tashkent.)

Dryobates leucopterus leptorhynchus natio *bucharensis* Sarudny, Izv. Turk. otd. Russ. geogr. O., **16**, 1923, p. 97. (Khazret-baba, Alpine Buchara.)

Alpine parts of Turkestan and the Ferghana valley, including the drainage basins of the Chirchik and Zeravshan rivers, south in Alpine Buchara to the foothills of the Pamirs and down the Pianja to the Parkhara River and east to the Tekes valley.

? Dendrocopos leucopterus korejevi (Sarudny)

Dryobates leucopterus leptorhynchus natio *korejevi* Sarudny, Izv. Turk. otd. Russ. geogr. O., **16**, 1923, p. 95. (Kuldja.)

Southwestern Ala-tau, region about Kuldja, western spurs of the Boro Koro range, Jarkent [or Dzharkent or Panfilov], Atbashi, Fort Naryn. Doubtfully distinct from *D. l. leptorhynchus.*

Dendrocopos leucopterus leucopterus (Salvadori)

Picus (Dendrocopus) leucopterus Salvadori, Atti Acad. Sci. Torino, **6**, 1870, p. 129. (Yarkand, Kashgaria.)

Southern Dzungaria (Manass, Urumchi, Bodgo Ula Mts.) and Kashgaria.

Dendrocopos syriacus balcanicus (Gengler and Stresemann)

Dryobates major balcanicus Gengler and Stresemann, Anz. Orn. Ges. Bayern, no. 1, 1919, p. 2. (Kaluchowa, Macedonia.)

Dryobates syriacus romanicus Catuneanu, Notat. Biol., **1**, 1933, p. 85. (Pragova and Buzau, Romania.)

Eastern Yugoslavia and the Transylvanian Alps to Macedonia and Bulgaria.

Dendrocopos syriacus syriacus (Ehrenberg)

Picus syriacus Ehrenberg, in Hemprich and Ehrenberg, Symb. Phys., Aves, fol. r [1833], note 5. (Mt. Lebanon.)

Asia Minor, the Levant States, Palestine, Mesopotamia and western Iran.

Dendrocopos syriacus transcaucasicus (Buturlin)

Dendrocopus syriacus transcaucasicus Buturlin, Orn. Mitt., **1**, 1910, p. 193, 195. (Aresh dist. in western part of Elizabetpolsk Gouv.)

Transcaucasia; perhaps not different from *D. s. syriacus.*

Dendrocopos syriacus milleri (Sarudny)

Dendrocopus syriacus milleri Sarudny, Orn. Monatsb., **17**, 1909, p. 81. (Volcano Kuh-i-Taftan, Iranian Baluchistan.)

Confined to the type locality in southeastern Iran.

Dendrocopos assimilis (Blyth)

Picus assimilis "Natterer" Blyth, Journ. As. Soc. Bengal, **18**, no. 2, 1849, p. 803. (Himalayas; type from Rawal Pindi, Punjab, *cf.* Stresemann, Anz. Orn. Ges. Bayern, no. 4, 1921, p. 24.)

Picus scindeanus Horsfield and Moore, Cat. Bds. Mus. East India. Co., **2**, 1856–58 (1858), p. 671. (Shikapore, Sind.)

Southeastern Iran, Baluchistan, Sind, western Punjab.

Dendrocopos himalayensis albescens (Stuart Baker)

Dryobates himalayensis albescens Stuart Baker, Bull. Brit. Orn. Cl., **46**, 1926, p. 70. (Goona [= Guna], Kashmir.)

Western Himalayas (northeastern Afghanistan, Chitral, Northwest Frontier, Kashmir, Punjab).

Dendrocopos himalayensis himalayensis (Jardine and Selby)

Picus himalayensis Jardine and Selby, in Jardine's Illustr. Orn., **3**, 1835, Sig. D., pl. 116 and text. (Mussorie, 6500 feet.)

The Himalayas from Simla to Garhwal and Kumaon.

Dendrocopos darjellensis darjellensis (Blyth)

Picus (Dendrocopus) darjellensis Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, 1845, p. 196. (Darjeeling and Nepal.)

Picus majoroides "Hodgson" Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, 1845, p. 196 in text. Alternate name.[1]

Nepal and Sikkim eastward through northern Burma, the Shan States and northern Tonkin.

Dendrocopos darjellensis desmursi (J. Verreaux)

Picus desmursi J. Verreaux, Nouv. Arch. Mus. Hist. Nat. [Paris], **6**, 1870, Bull., p. 33. (Mountains of Chinese Tibet.)

Western China in provs. of Sikang and western Yunnan.

Dendrocopos medius medius (Linné)

Picus medius Linné, Syst. Nat., ed. 10, **1**, 1758, p. 114. (Europe = Sweden *ex* Fn. Suec.)

Southern Sweden and Norway through central Europe to the Alps, Austria and Hungary.

[1] First validation of the nude name which was originally published in Gray's Zool. Misc., 1844, p. 85.

Dendrocopos medius lilianae (Witherby)

Dryobates medius lilianæ Witherby, Bull. Brit. Orn. Cl., **42**, 1922, p. 49. (Potes, Santander, Spain.)

Northwestern Spain.

Dendrocopos medius splendidior (Parrot)

Dendrocopus medius splendidior Parrot, Journ. f. Orn., **53**, 1905, p. 555. (Hag Saranti, Epirus.)

Southern Hungary, Romania, Bulgaria, Turkey and Greece.

Dendrocopos medius anatoliae (Hartert)

Dryobates medius anatoliae Hartert, Vög. pal. Fauna, **2**, Heft 2, 1912, p. 924. (Xanthus, Asia Minor.)

Asia Minor.

Dendrocopos medius caucasicus (Bianchi)

Dendrocoptes medius caucasicus Bianchi, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **9**, 1904, p. 4. (Northern Caucasus.)

Western sections of northern Caucasia.

Dendrocopos medius laubmanni (Götz)

Dendrocoptes medius colchicus Buturlin, Orn. Mitt., **1**, 1910, p. 196, 198. (Kutais district, southern Caucasus.) Not *Xylocopus minor colchicus* Buturlin, 1908.

Dryobates medius transcaucasicus Buturlin, Orn. Monatsb., **20**, 1912, p. 64. New name for *Dendrocoptes medius colchicus* Buturlin 1910. Not *Dendrocopus syriacus transcaucasicus* Buturlin, 1910.

Dryobates medius laubmanni Götz, Verh. Orn. Ges. Bayern, **15**, 1923, p. 321. New name for *Dendrocoptes medius transcaucasicus* Buturlin, 1912, preoccupied.

Kutais, Batum and Kubinski districts in Transcaucasia, and adjacent parts of northern Iran.

Dendrocopos medius sancti-johannis (Blanford)

Picus sancti-johannis Blanford, Ibis, 1873, p. 226. (Oak forests near Shiraz, 4000–7000 feet, Iran.)

Southwestern Iran.

Dendrocopos leucotos leucotos (Bechstein)

Picus leucotos Bechstein, Orn. Taschenb., **1**, 1803, p. 66 and fig. of ♀ (Silesia.)

Dendrocopus leuconotus carpathicus Buturlin, Izv. Kavkaza Mus., **3**, 1907, p. 47. (Bucovina.)

Dryobates leucotos stechowi Sachtleben, Verh. Orn. Ges. Bayern, 14, 1919, p. 181. (Zubrovo, Gouv. Grodno, Lithuania.)

Scandinavian Peninsula, northern Russia south to about lat. 49° N., eastern Germany, Poland, Hungary and Romania.

Dendrocopos leucotos lilfordi (Sharpe and Dresser)

Picus Lilfordi Sharpe and Dresser, Ann. and Mag. Nat. Hist. (4), 8, 1871, p. 436. (Epirus.)

Dryobates leucotos caucasicus Tschchikwischwili, Bull. Mus. Georgie, 4, 1927 (1928), p. 281. (Borzhomi, Caucasus.)

Dryobates lilfordi ponticus Buturlin, Ptitzy sev. Kavkaza, 1929, p. 14. (Khosta and Churuksu in northwestern Transcaucasia.)

Balkan Peninsula, Asia Minor and western Transcaucasia.

Dendrocopos leucotos uralensis (Malherbe)

Picus Uralensis Malherbe, Monogr. Picidées, 1, 1861, p. 92; 3, pl. 23, f. 4, 5, 6. (Ural Mts. at least in the Baschkir country; Siberia.)

Southern Urals and western Siberia (birds from the Altai, Sayan, Baikal and Transbaicalia approach the typical form).[1]

Dendrocopos leucotos voznesenskii (Buturlin)

Dendrocopus leuconotos voznesenskii Buturlin, Izv. Kavkaza Mus., 3, 1907, p. 47. (Kamchatka.)

Eastern Siberia and Kamchatka.

Dendrocopos leucotos saghalinensis (Yamashina)

Dryobates leucotos saghalinensis Yamashina, Tori, 7, 1931, p. 1. (Otomari, Sakhalin.)

Sakhalin.

Dendrocopos leucotos ussuriensis (Buturlin)

Dendrocopus leuconotus ussuriensis Buturlin, Izv. Kavkaza Mus., 3, April, 1907, p. 47. (Sidemi, Ussuri.)

Dryobates leucotos ussurianus Clark, Proc. U. S. Nat. Mus., 32, June, 1907, p. 473. (Ussuri.)

Dendrodromas leuconotus clarki Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 234. (New name for *D.l. ussurianus* Clark.

Amurland, Ussuri, northern Manchuria and northeastern Korea.

Dendrocopos leucotos sinicus (Buturlin)

Dendrocopus leuconotus sinicus Buturlin, Izv. Kavkaza Mus., 3, April, 1907, p. 46. (Pekin.)

[1] cf. Stegmann, Journ. f. Orn., 84, 1936, p. 110-111.

Dryobates leucotos coreensis Clark, Proc. U. S. Nat. Mus., **32**, June, 1907, p. 472. (Fusan, Korea.)

Northeastern China in Province of Hopeh, and in Korea (except northeastern).

Dendrocopos leucotos quelpartensis (Kuroda and Mori)

Dryobates leucotos quelpartensis Kuroda and Mori, Tori, **2**, 1918, p. 74, 88. (Quelpart Island.)

Confined to Saishu To [Quelpart Island].

Dendrocopos leucotos subcirris (Stejneger)

Dryobates subcirris Stejneger, Proc. U. S. Nat. Mus., **9**, 1886, p. 113. (Sapporo, Hokkaido.)

Dryobates leucotos yamashinae Bergman, Ark. Zool., **23B**, 1931, no. 3, p. 4. (Nikishiro, Kunashiri, Kurile Islands.)

Southern Kurile Islands (Kunashiri), and on Hokkaido.

Dendrocopos leucotos stejnegeri (Kuroda)

Dryobates leucotis [sic] *stejenegeri* [sic] Kuroda, Auk, **38**, 1921, p. 579. (Minami-azumi-gori, Prov. Shinano, Hondo.)

Northern and central Honshu, Sado.

Dendrocopos leucotos namiyei (Stejneger)

Dryobates namiyei Stejneger, Proc. U. S. Nat. Mus., **9**, 1886, p. 116. (Yamato, southwest of Osaka, Honshu.)

Dryobates leucotis [sic] *intermedius* Kuroda, Auk, **38**, 1921, p. 580. (Prov. of Yamato, Honshu.) Not *Dryobates villosus intermedius* Nelson, 1900.

Dryobates leucotos kurodae Götz, Jahresh. Ver. vaterl. Naturk. Württemberg, **81**, 1925, p. 95. (New name for *D. l. intermedius* Kuroda, preoccupied.

Dryobates leucotos uchidai Momiyama, Annot. Orn. Orient., **1**, 1927, p. 62, Japanese text, p. 96, English text. (Misimera-mura, Prov. of Hiuga, Kyushu.)

Dryobates leucotos tookaidonis Momiyama, Annot. Orn. Orient., **1**, 1927, p. 66. "New name for northern form in Kuroda's *D. l. intermedius*."

Southwestern Honshu, Oki, Shikoku and Kyushu.

Dendrocopos leucotos takahashii (Kuroda and Mori)

Dryobates leucotos takahashii Kuroda and Mori, Tori, **2**, 1920, p. 266, Japanese text, p. 277, English text. (Yakinzan, Dagelet Island.)

Confined to Utsuryo To [Dagelet Island].

Dendrocopos leucotos fohkiensis (Buturlin)

Dendrodomas insularis fohkiensis Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **13**, 1908, p. 235. (Northwestern Fukien.)

Southeastern China in mountains of northwestern Fukien.

Dendrocopos leucotos owstoni (Ogawa)

Picus owstoni Ogawa, Annot. Zool. Japon, **5**, 1905, p. 203, pl. 10. (Amami O Shima.)

Northern Ryukyu Islands: Amami O Shima.

Dendrocopos leucotos insularis (Gould)

Picus insularis Gould, Proc. Zool. Soc. London, 1862 (1863), p. 283. (Formosa.)

Formosa.

Dendrocopos cathpharius cathpharius (Blyth)

Picus (Dendrocopus) cathpharius "Hodgson" Blyth, Journ. As. Soc. Bengal, **12**, pt. 2, 1843, p. 1006. (Darjeeling.)

Bhutan, Nepal, Sikkim and the hills of northern Assam.

Dendrocopos cathpharius pyrrhothorax (Hume)

Picus pyrrhothorax Anonymous = Hume, Stray Feath., **10**, 1881, p. 150. (Aimole, Eastern Manipur Hills.)

Hills of southern Assam (Khasi Hills, Naga Hills, Manipur Hills.)

Dendrocopos cathpharius tenebrosus (Rothschild)

Dryobates cathpharius tenebrosus Rothschild, Nov. Zool., **33**, 1926, p. 240. (Shweli-Salween divide, 7000 feet, western Yunnan.)

Western Yunnan, Shan States, northern Siam, northern Laos, northern Tonkin.

Dendrocopos cathpharius pernyii (J. Verreaux)

Picus Pernyii J. Verreaux, Rev. et Mag. Zool. (2), **19**, 1867, p. 271, pl. 16. (North China = Szechwan by designation of Bangs and Peters, 1928.)

Western China in provinces of Kansu, Sikang and Szechwan.

Dendrocopos cathpharius innixus (Bangs and Peters)

Dryobates pernyii innixus Bangs and Peters, Bull. Mus. Comp. Zoöl., **68**, 1928, p. 334. (Chang Yang Hsien, Hupeh.)

Known only from central Hupeh.

Dendrocopos hyperythrus marshalli (Hartert)

Dryobates hyperythrus marshalli Hartert, Vög. pal. Fauna, 2, Heft 2, 1912, p. 926. (Murree.)

Northwestern Himalayas from Kashmir to Garhwal; western Tibet.

Dendrocopos hyperythrus hyperythrus (Vigors)

Picus hyperythrus Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31, (1831), p. 23. (Himalayas, restricted to the eastern Himalayas by Hartert, 1912.)

Dryobates hyperythrus sikkimensis Ticehurst and Whistler, Ibis, 1924, p. 473. (Sikkim.)

Dryobates hyperythrus miniakorum Meise, Abh. Ber. Mus. Dresden, 18, 1934, no. 2, p. 53. (Tatsienlu, Szechwan [now called Kangting and situated in eastern Sikang.])

The Himalayas from Nepal and Sikkim eastward through Assam and the hills of northern Burma to western Yunnan and Sikang; northern Siam.

Dendrocopos hyperythrus subrufinus (Cabanis and Heine)

Xylurgus subrufinus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 50, note. (Talien Bay and Tientsin, North China.)

Hypopicus poliopsis manchuricus Ingram, Ibis, 1909, p. 453. (Kirin Province, Manchuria.)

Central Manchuria and northern Korea southward through eastern and central China to northern Tonkin.

Dendrocopos hyperythrus annamensis (Kloss)

Dryobates hyperythrus annamensis Kloss, Bull. Brit. Orn. Cl., 46, 1925, p. 7. (Daban, Annam.)

Dalat region in southern Annam and southern Laos.

Dendrocopos auriceps (Vigors)

Picus auriceps Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31 (6 Apr. 1831), p. 44. (Himalayas.)

Picus brunnifrons Vigors in Gould, Century of Birds Himalaya Mts., 1831, text to pl. 52.[1] (Hilly districts of India.)

Northwestern Himalayas from Afghanistan and Baluchistan to Kashmir, Gahrwal and Nepal.

Dendrocopos atratus (Blyth)

Dryobates atratus Blyth, Journ. As. Soc. Bengal, 18, pt. 2, 1849, p. 803. (Tenasserim.)

[1] The plate is lettered *Picus brunifrons.*

East Manipur Hills, Chin Hills, Arakan Yomas, Karen Hills, Southern Shan States, Tenasserim, northern Siam and Laos; Yunnan (one record.)

? Dendrocopos macei westermani (Blyth)

Picus Westermani Blyth, Ibis, 1870, p. 163. ("Himalaya".)

Western Himalayas; doubtfully distinct from *D. m. macei.*

Dendrocopos macei macei (Vieillot)

Picus Macei Vieillot, Nouv. Dict. Hist. Nat., **26**, 1818, p. 80. (Bengal.)

Eastern Himalayas, eastern Bengal, the Eastern Ghats, Assam, and northern Burma east to the Hukawng Valley and Bhamo.

Dendrocopos macei longipennis Hesse

Dendrocopos analis longipennis Hesse, Orn. Monatsb., **20**, 1912, p. 82. (Bangkok, Siam.)

Burma from Pegu and Karenni to Tenasserim, and Siam as far as lat. 12° N., extending eastward to Cambodia and southern Annam.

Dendrocopos macei andamanensis (Blyth)

Picus andamanensis Blyth, Journ. As. Soc. Bengal, **28**, 1859, p. 412, note. (Port Blair, Andaman Islands.)

Andaman Islands.

Dendrocopos macei montis (Robinson and Kloss)

Dryobates analis montis Robinson and Kloss, Journ. Fed. Malay States Mus., **11**, 1923, p. 53. (Tjibodas, 4000–6000 feet, western Java.)

Hills of western Java.

Dendrocopos macei analis (Bonaparte)

Picus analis "Temm." Bonaparte, Consp. Av., **1**, 1850, p. 137. (Java.)

Dendrocopus analis brevipennis Hesse, Orn. Monatsb., **19**, 1911, p. 182. (Java.)

Sumatra (?),[1] Java (except western), Bali.

Dendrocopos mahrattensis aurocristatus (Tickell)

Picus Aurocristatus Tickell, Journ. As. Soc. Bengal, **2**, 1833, p. 579. (Jungles of Borabhum and Dholbhum.)

Picus Blanfordi Blyth, Journ. As. Soc. Bengal, **32**, 1863, p. 75. (Burma = Toungoo.)

[1] One doubtful record.

Northern India from Sind to Assam, extending southward to Burma as far as Toungoo; Laos (one record).

Dendrocopos mahrattensis mahrattensis (Latham)

Picus Mahrattensis Latham, Index Orn., Suppl., 1801, p. xxxi. (India = the Mahratta country, *ex* Gen. Syn., suppl. 2, p. 142, no. 7.)

India south of Poona on the west and the Eastern Ghats on the east; Ceylon.

Dendrocopos minor comminutus (Hartert)

Dendrocopus minor comminutus Hartert, Bds. Brit. Isles, 1907, p. 22. (Wingrave, England.)

Central and southern England.

Dendrocopos minor hortorum (C. L. Brehm)

Picus hortorum C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 192. (Germany; type from Renthendorf.)

Picus minor bacmeisteri Kleinschmidt, Falco, **12**, 1916, p. 14. (Northern France.)

Picus minor silesiacus Kleinschmidt, Ornis Germanica, 1917, p. 5. (Silesia.)

North-central Europe eastward to Poland and south to southern France and southern Germany.

? Dendrocopos minor jordansi (Götz)

Dryobates minor jordansi Götz, Jahresh. Ver. vaterl. Naturk., Württemberg, **81**, 1925, p. 95. (Hallein, Salzburg.)

Mountainous parts of central Europe from the Tessiner Alps to the Tatras mountains, south to Hungary. Perhaps not separable from *D. m. hortorum*.

Dendrocopos minor wagneri (Domaniewski)

Dryobates minor wagneri Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **6**, 1927, p. 76. (Balta neagra, Romania.)

Romania.

Dendrocopos minor hispaniae (von Jordans)

Dendrocopus minor hispaniae von Jordans, Falco, **34**, 1938, p. 52. (Linares de Rifrio, Salamanca, Spain.)

Spain.

Dendrocopos minor ledouci (Malherbe)

Picus Ledouci Malherbe, Bull. Soc. Hist. Nat. Moselle [Faune Orn. Algérie], 7^{m} cahier, 1855, p. 22. (Algeria.)

Northern Algeria and northern Tunisia.

Dendrocopos minor buturlini (Hartert)

Dryobates minor buturlini Hartert, Vög. pal. Fauna, **2**, Heft. 2, 1912, p. 921. (Colle di Valdenza, Italy.)

Extreme southeastern France and all of Switzerland and Italy.

? Dendrocopos minor serbicus (Buturlin)

Leuconotopicus minor serbicus Buturlin, Poln'ii Opredelitel Ptits SSSR., **3**, 1936, p. 205. (Velikh, Montenegro.)

Dryobates minor Heinrichi von Jordans, Mitt. K. Naturwiss. Inst. Bulgaria, **13**, 1940, p. 131. (Kamchia, Bulgaria.)

Yugoslavia, Bulgaria and Greece; doubtfully distinct.

Dendrocopos minor danfordi (Hargitt)

Picus danfordi Hargitt, Ibis, 1883, p. 172. (Zebil and Gozna, Taurus.)

Taurus Mts. in Asia Minor.

Dendrocopos minor colchicus (Buturlin)

Xylocopus minor colchicus Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **13**, 1908, p. 249. (Black Sea and Caspian Sea basins in northern Caucasus and Transcaucasia.)

Dryobates minor harterti Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **6**, 1927, p. 90. (Bielyj Ključ, Prov. Tiflis, Transcaucasus.) Not *Dendrocopus major harterti* Arrigoni, 1902.

Dryobates minor ernsti Domaniewski, Acta Orn. Mus. Zool. Polonici, **1**, 1933, p. 80. New name for *D. m. harterti* Domaniewski, preoccupied.

The Caucasus.

Dendrocopos minor quadrifasciatus (Radde)

Picus minor var *quadrifasciatus* Radde, Orn. Caucasica, 1884, p. 315. (Talysch Forests.)

Lenkoran.

Dendrocopos minor hyrcanus (Sarudny and Bilkewitsch)

Xylocopus minor hyrcanus Sarudny and Bilkewitsch, Orn. Mitt., **4**, 1913, p. 21. (Astrabad, Iran.)

Northern Iran in Provinces of Mazanderan and Astrabad.

Dendrocopos minor morgani (Sarudny and Loudon)

Dendrocopus minor morgani Sarudny and Loudon., Orn. Jahrb., **15**, 1904, p. 227. (Valley of the Schalil River, Bachtiara, Iran.)

Southwestern Iran in the Schalil Valley.

Dendrocopos minor minor (Linné)

Picus minor Linné, Syst. Nat., ed. 10, **1**, 1758, p. 114. (Europe, = Sweden *ex* cit. fr. Fn. Svec.)

Dryobates minor transitivus Loudon, Orn. Monatsb., **22**, 1914, p. 77. (Livonia; the region of Pskov designated as type locality by Domanewski, 1927.)

Dryobates minor lönnbergi Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **6**, 1927, p. 77. (Karesuana, Lapland.)

Dryobates minor menzbieri Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **6**, 1927, p. 81. (Vicinity of Saratov, Russia.)

Scandinavian Peninsula, the Baltic states, northern and central European Russia and northern part of western Siberia.

Dendrocopos minor mongolicus (Buturlin)

Xylocopus minor mongolicus Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **13**, 1908, p. 242. (Northern Dzungaria and northwestern and northern Mongolia; types from Dzungaria.)

Xylocopus minor neglectus Portenko, Bird Fauna extra-polar part of North Urals (Published by Akad. Nauk SSSR.), 1937, p. 80 (in Russian), p. 226 (English summary) (Omsk, Siberia.)

Southern part of western Siberia, Dzungaria, and Mongolia eastward to Kentei and Ulan Bator [= Urga].

Dendrocopos minor kamtschatkensis (Malherbe)

Picus Kamtschatkensis "Bp" Malherbe, Monogr. Picidées, **1**, 1861, p. 115. (Okhotsk.)

Eastern Siberia from the Valley of the Yenissei to Anadyr and the Sea of Okhotsk and south to the Altai and Transbaikalia.

Dendrocopos minor immaculatus Stejneger

Dendrocopos immaculatus Stejneger, Proc. Biol. Soc. Washington, **2**, 1884, p. 98. (Kamchatka.)

Anadyr and Kamchatka.

Dendrocopos minor amurensis (Buturlin)

Xylocopus minor amurensis Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **13**, 1908, p. 243. (Little Khinghan Mts, the lower Amur and accidentally on Sakhalin = Mariinsk, lower Amur River.)

Xylocopus minor minutillus Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **13**, 1908, p. 246. (Sidemi, Ussuri.)

Xylocopus minor yamashinai Momiyama, Annot. Orn. Orient., **1**, 1928, p. 205. (Sakhalin.)

The Amur region, northern and central Manchuria, Ussuri, islands of Sakhalin and Hokkaido.

Dendrocopos minor nojidoensis (Yamashina)

Dryobates minor nojidoensis Yamashina, Tori, **6**, 1930, p. 254. (Mt. Hakuto, Korea.)

Northeastern Korea.

Dendrocopos canicapillus doerriesi (Hargitt)

Iyngipicus doerriesi Hargitt, Ibis, 1881, p. 398. (Askold Island, Siberia.)

Southern Ussuri, eastern Manchuria, Korea (except northeastern).

Dendrocopos canicapillus scintilliceps (Swinhoe)

Picus scintilliceps Swinhoe, Ibis, 1853, p. 96. (Peking [= Peiping, Hopeh, China.])

Iyngipicus pygmæus clementii LaTouche, Bull. Brit. Orn. Cl., **40**, 1919, p. 51. (Chang Yang Hsien, Hupeh.)

Northern and eastern China in provinces of Shensi, Hopeh, Shantung, Kiangsu, Anhwei, Chekiang and Hupeh.

Dendrocopos canicapillus nagamichii (LaTouche)

Yungipicus scintilliceps kurodai LaTouche, Handb. Bds. E. China, **2**, pt. 1, 1931, p. 22. (Fukien.) Not *Dryobates leucotos kurodai* Götz, 1926.

Yungipicus scintilliceps nagamichii LaTouche, Bull. Brit. Orn. Cl., **53**, 1932, p. 22. New name for *Yungipicus scintilliceps kurodai* LaTouche, preoccupied.

China in provinces of Hunan, Fukien, northern Kwangtung, Kwangsi and central and western Yunnan.

Dendrocopos canicapillus kaleënsis (Swinhoe)

Picus kaleënsis Swinhoe, Ibis, 1863, p. 390. (Formosa.)

Island of Formosa.

Dendrocopos canicapillus swinhoei (Hartert)

Iyngipicus scintilliceps swinhoei Hartert, Nov. Zool., **17**, 1910, p. 221. (No-tai, Hainan.)

Island of Hainan.

Dendrocopos canicapillus omissus (Rothschild)

Dryobates pygmæus omissus Rothschild, Bull. Brit. Orn. Cl., **43**, 1922, p. 10. (Lichiang Range, Yunnan.)

?Dryobates obscurior Rothschild, Bull. Brit. Orn. Cl., **43**, 1922, p. 10. (Lichiang Range, Yunnan.) [1]

Dryobates semicoronatus szetschuanensis Rensch. Abh. Ber. Mus. Dresden, **16**, 1924, no. 2, p. 39. (Kwanhsien, Szechwan.)

Southeastern Sikang, Szechwan and northwestern Yunnan. The specimen recorded under this name by Yen (Ois. (n.s.), **7**, 1937, p. 549) from Kwangsi should be reexamined.

Dendrocopos canicapillus obscurus (LaTouche)

Dryobates pygmœus obscurus LaTouche, Bull. Brit. Orn. Cl., **42**, 1921, p. 14. (Hokow, 300 feet, Yunnan.)

Dryobates pygmœus permixtus LaTouche, Bull. Brit. Orn. Cl., **43**, 1922, p. 44. (Milati and near Yunnanfu, Yunnan.)

Southeastern Yunnan.

Dendrocopos canicapillus tonkinensis (Kuroda)

Yungipicus pygmœus tonkinensis Kuroda, Bull. Brit. Orn. Cl., **44**, 1924, p. 47. (Yenbai, Tonkin.)

Tonkin, northern Laos and northern Annam.

Dendrocopos canicapillus semicoronatus (Malherbe)

Picus semicoronatus Malherbe, Bull. Soc. Hist. Nat. Moselle, 5e cahier, 1848–49 (1849), p. 22 in text (Himalayas = Darjeeling.)

Bhutan, Sikkim, eastern Assam.

Dendrocopos canicapillus mitchellii (Malherbe)

Picus pygmœus Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31 (1831), p. 44. (Himalayas) Not *Picus pygmaeus* Lichtenstein, 1823.

Picus mitchellii Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 530. (Nepal.)

Nepal.

Dendrocopos canicapillus canicapillus (Blyth)

Picus canicapillus Blyth, Journ. As. Soc. Bengal, **14**, pt. 1, after 12 July, 1845, p. 197. (Arakan; type from Ramree Island.)

Iyngipicus pumilus Hargitt, Ibis, 1881, p. 599. (Southern Tenasserim.)

Burma from Cachar and Manipur to Tenasserim and northern Siam and extending through central and Peninsular Siam to the Pakchan Estuary; southern Annam.

[1] Known only from the unique type, probably an aberrant specimen.

?Dendrocopos canicapillus delacouri (deSchauensee)

Dryobates hardwickii delacouri deSchauensee, Proc. Acad. Nat. Sci. Philadelphia, **90**, 1938, p. 110. (Ubol-Chanuman, lat. 15° 30′ N., long. 105° E., Siam.)

Eastern Siam and possibly Cambodia; perhaps not different from *D. c. canicapillus*.

Dendrocopos canicapillus auritus (Eyton)

Tripsurus auritus Eyton, Ann. and Mag. Nat. Hist., **16**, Oct., 1845, p. 229. (Malacca.)

Iyngipicus canicapillus suffusus Robinson and Kloss, Bull. Brit. Orn. Cl., **40**, 1919, p. 14. (Kuala Lumpur, Selangor, Federated Malay States.)

Malay Peninsula.

Dendrocopos canicapillus volzi (Stresemann)

Dryobates canicapillus volzi Stresemann, Verh. Orn. Ges. Bayern, **14**, 1920, p. 288. (Laut Tawar [Atjeh], Sumatra.)

Mountains of northwestern Sumatra.

Dendrocopos canicapillus aurantiiventris (Salvadori)

Picus (Baeopipo) aurantiiventris Salvadori, Atti R. Accad. Sci. Torino, **3**, 1868, p. 524. (Borneo = Sarawak.)

Iyngipicus picatus Hargitt, Ibis, 1882, p. 41. (Northwestern Borneo.) Col. pl., Cat. Bds. Brit. Mus., **18**, pl. 6, f. 1.

Northern and eastern Borneo.

?Dendrocopos wattersi (Salvadori and Giglioli)

Iyngipicus wattersi Salvadori and Giglioli, Atti R. Accad. Sci. Torino, **20**, 1885, p. 825. (Formosa.)

Island of Formosa.[1]

Dendrocopos kizuki wilderi (Kuroda)

Yungipicus kizuki wilderi Kuroda, China Journ. Sci. and Arts, **5**, 1926, p. 261. (Eastern Tombs, 75 miles northeast of Peiping, Hopeh.)

Northeastern Hopeh.

Dendrocopos kizuki permutatus (Meise)

Dryobates kizuki permutatus Meise, Abh. Ber. Mus. Dresden, **18**, 1934, no. 2, p. 53. (Sidemi.)

[1] The authors of the 3d edition of the Handlist of Japanese birds consider this to be the young of *D. c. kaleënsis*, but without an examination of the type I am not prepared to accept this disposition. The original description does indicate a bird about the size of *kaleënsis* but the discrepancies, particularly the color and markings of the underparts are difficult to account for.

Ussuri, perhaps also southeastern Manchuria and northeastern Korea.

Dendrocopos kizuki acutirostris (Yamashina)

Dryobates kizuki acutirostris Yamashina, Tori, **7**, 1931, p. 111. (Kongosan, Kogendo, eastern Korea.)

Eastern Korea.

Dendrocopos kizuki kurilensis (Bergman)

Yungipicus kizuki kurilensis Bergman, Ark. Zool., **23B**, June 1931, no. 3, p. 5. (Chinomizi, Kunashiri, Kurile Islands.)

Yungipicus kizuki kurodae Bergman, Ark. Zool., **23B**, June, 1931, no. 3, p. 5. (Yeterofu, Kurile Islands.) Not *Yungipicus scintilliceps kurodai* La Touche, May, 1931.

Dryobates kizuki nagamichi Bergman, Zur Kentnis Nordostasiat. Vög., 1935, p. 211. New name for *Yungipicus kizuki kurodae* Bergman, preoccupied. Not *Yungipicus scintilliceps nagamichii* La Touche, 1932.

Kurile Islands: Kunashiri and Yeterofu.

Dendrocopos kizuki shikokuensis (Kuroda)

Yungipicus kizuki shikokuensis Kuroda, Annot. Zool. Japon., **10**, 1922, p. 115. (Shusogun, Prov. Iyo, Shikoku.)

Southern Honshu and Shikoku.

Dendrocopos kizuki kizuki (Temminck)

Picus kizuki Temminck, Pl. col., livr. 99, 1836. (Japan, = Kyushu.)

Kyushu.

Dendrocopos kizuki matsudairai (Kuroda)

Yungipicus kizuki matsudairai Kuroda, Auk, **38**, 1921, p. 576. (Miyakeshima, Seven Islands of Izu, Japan.)

Yungipicus kizuki harterti Kuroda, Bull. Brit. Orn. Cl., **43**, 1923, p. 108. (Miyanoura, Yakushima.) Not *Dryobates major harterti* Arrigoni, 1902.

Dryobates kizuki petersi Kuroda, Bull. Brit. Orn. Cl., **50**, 1929, p. 18. New name for *Yungipicus kizuki harterti* Kuroda, invalid.

Seven Islands of Izu; Takushima.

Dendrocopos kizuki seebohmi (Hargitt)

Iyngipicus seebohmi Hargitt, Ibis, 1884, p. 100. (Honshu and Hokkaido; restricted to the latter by Stejneger.)

Yungipicus kizuki ijimae Taka-Tsukasa, Dobuts. Zasshi, **34**, 1922, p. 292. (Rantomari, Maoka-gun, Sakhalin.) In Japanese.

Sakhalin and Hokkaido.

Dendrocopos kizuki nippon (Kuroda)

Yungipicus kizuki nippon Kuroda, Ibis, 1922, p. 88. (Nakahata, Gotemba, Prov. Suruga, Honshu.)

Yungipicus kizuki saisiuensis Momiyama, Tori, **5**, 1926, p. 111. (Gohyaku-rakan-zan, Quelpart Island.) In Japanese.

Yungipicus kizuki siragiensis Momiyama, Journ. Chosen Nat. Hist. Soc., no. 4, 1927, p. 2. (Koryo, Korea.) In Japanese.

Yungipicus kizuki toohokuensis Kumagai, Annot. Orn. Orient., **1**, 1928, p. 292. (Ooka-mura, Kuribara-gun, Pref. Miyagi, Honshu.)

Northern and central Honshu, Korea (part) and Quelpart Island.

Dendrocopos kizuki kotataki (Kuroda)

Yungipicus kizuki kotataki Kuroda, Ibis, 1922, p. 86. (Nitamura, Tsushima.)

Oki and Tsushima.

Dendrocopos kizuki amamii (Kuroda)

Yungipicus kizuki amamii Kuroda, Ibis, 1922, p. 87 (in table), p. 88 (Amamishima, Ryukyu Islands.)

Northern Ryukyu Islands: Amami-Ôshima, Tokunoshima.

Dendrocopos kizuki nigrescens (Seebohm)

Iyngipicus kizuki nigrescens Seebohm, Ibis, 1887, p. 177. (Naha, Okinawa, Ryukyu Islands.)

Central Ryukyu Islands: Okinawa, Yagachishima.

Dendrocopos kizuki orii (Kuroda)

Yungipicus kizuki orii Kuroda, Bull. Brit. Orn. Cl., **43**, 1923, p. 109. (Sonai, Iriomote, Ryukyu Islands.)

Southern Ryukyu Islands: Iriomote.

Dendrocopos moluccensis nanus (Vigors)

Picus nanus Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830–31 (1832), p. 172. (Himalayas.)

Yungipicus hardwickii brunneiceps Stuart Baker, Bull. Brit. Orn. Cl., **47**, 1926, p. 42. (Jelwara, Jodpur-Oodeypore road.)

Northern and central India.

Dendrocopos moluccensis cinereigula (Malherbe)

Picus cinereigula Malherbe, Rev. et Mag. Zool. (2), **1**, 1849, p. 531. (Madras = Alleppy, Travancore.)

Iyngipicus peninsularis Hargitt, Ibis, 1882, p. 48. (Extreme south of India.)

Western side of the Bombay Presidency in southwestern India.

Dendrocopos moluccensis hardwickii (Jerdon)

Picus (Dendrocopus) Hardwickii Jerdon, Madras Journ. Lit. Sci., **13**, 1844, pt. 2, p. 138. (Southern India, = Goomsoor, Ganjam.)

Eastern parts of Indian Peninsula.

Dendrocopos moluccensis gymnopthalmus (Blyth)

Picus gymnopthalmus [sic] Blyth, Journ. As. Soc. Bengal, **18**, pt. 2, 1849, p. 804. (Ceylon.)

Ceylon.

Dendrocopos moluccensis moluccensis (Gmelin)

Picus moluccensis Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 439. (Moluccas, = Malacca.)

Yungipicus moluccensis tantulus Riley, Proc. Biol. Soc. Washington, **40**, 1927, p. 140. (Tanggaroeng, Mahakkam River, Borneo.)

Malay States, Sumatra, Riouw Archipelago, Billiton, Borneo. North Natoena Islands, Java, Bali (?).

Dendrocopos moluccensis grandis (Hargitt)

Iyngipicus grandis Hargitt, Ibis, 1882, p. 45. (Lombok and Flores; restricted to Lombok by Rensch, Mitt. Zool. Mus. Berlin, **17**, 1931, p. 546.)

Lesser Soenda Islands: Lombok, Soembawa, Flores, Lomblen.

Dendrocopos moluccensis excelsior (Hartert)

Iyngipicus grandis excelsior Hartert, Nov. Zool., **5**, 1898, p. 461. (Alor.)

Lesser Soenda Islands: Alor.

Dendrocopos maculatus validirostris (Blyth)

Picus validirostris Blyth, Cat. Bds. Mus. As. Soc., 1849, p. 64. (No locality; name for the bird described and referred to *P. nanus* Vigors by Blyth, Journ. As. Soc. Bengal, **14**, p. 197.)

Philippine Islands: Luzon, Catanduanes, Lubang, Marinduque, Mindoro.

Dendrocopos maculatus menagei (Bourns and Worcester)

Iyngipicus menagei Bourns and Worcester, Occ. Papers Minnesota Acad. Nat. Sci., 1, 1894, p. 14. (Sibuyan.)

Philippine Islands: Sibuyan.

Dendrocopos maculatus maculatus (Scopoli)

Picus maculatus Scopoli, Del. Flor. et Faun. Insubr., fasc. 2, 1786, p. 89. (Antigua, Panay.)

Philippine Islands: Panay, Guimaras, Negros, Cebu.

Dendrocopos maculatus leytensis (Steere)

Yungipicus Leytensis Steere, List Bds. Mamms. Steere Exped., 1890, p. 9. (No locality, = Leyte.)

Philippine Islands: Samar, Leyte, Bohol.

Dendrocopos maculatus fulvifasciatus (Hartgitt)

Iyngipicus fulvifasciatus Hargitt, Ibis, 1881, p. 598. (Basilan and Mindanao; type from Zamboanga, Mindanao.)

Philippine Islands: Mindanao, Basilan.

?Dendrocopos maculatus apo (Hachisuka)

Dryobates moluccensis apo Hachisuka, Bds. Phil. Ids., pt. 3, 1934, p. 235. (Mt. Apo, Mindanao.)

Philippine Islands: confined to Mt. Apo, Mindanao. Doubtfully distinct from *D. m. fulvifasciatus*.

Dendrocopos maculatus ramsayi (Hargitt)

Iyngipicus ramsayi Hargitt, Ibis, 1881, p. 598. (Northeastern Borneo; error = Sulu Islands.)

Philippine Islands: Jolo, Tawi Tawi, Bongao.

Dendrocopos maculatus siasiensis (Mearns)

Yungipicus siasiensis Mearns, Proc. U.S. Nat. Mus., 36, 1909, p. 438. (Siasi Island.)

Philippine Islands: Siasi.

Dendrocopos temminckii (Malherbe)

Picus Temminckii Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 529. (Celebes.)

Celebes (not recorded from the East Peninsula); Togian Islands.

Dendrocopos obsoletus obsoletus (Wagler)

Picus obsoletus Wagler, Isis von Oken, 22, 1829, col. 510. (Senegambia.)

Dendropicos obsoletus camerunensis Reichenow, Journ. f. Orn., 66, 1918, p. 437. (Uam and Bakari, Cameroons.) Not *Dendropicus camerunensis* Sharpe, 1907.

Dendropicos obsoletus kirensis Reichenow, Journ. f. Orn., 66, 1918, p. 437. (Redjaf on Kir, northeast Central Africa.)

Yungipicus obsoletus batesi Sclater, Bull. Brit. Orn. Cl., 42, 1921, p. 25. New name for *Dendropicos obsoletus camerunensis* Reichenow, 1918.

Gambia and Portuguese Guinea through the semi-arid belt of French Niger Colony and the French Sudan to the Northern Territory of Ivory Coast, Gold Coast, Nigeria and the interior of Cameroons, eastward to the Nile and the Uelle River district of the Belgian Congo.

Dendrocopos obsoletus heuglini (Neumann)

Jyngipicus obsoletus heuglini Neumann, Journ. f. Orn., 52, 1904, p. 402. (Eritrea and Bogosland; type from Ghadi-Saati, Mareb River, Eritrea.)

Eritrea and the Red Sea Province of the Sudan.

?Dendrocopos obsoletus nigricans (Neumann)

Jyngipicus obsoletos [sic] *nigricans* Neumann, Journ. f. Orn., 52, 1904, p. 402. (Uma River, Konta, southern Ethiopia.)

Southern Ethiopia and northern Uganda; doubtfully distinct from *D. o. obsoletus*.[1]

Dendrocopos obsoletus ingens (Hartert)

Iyngipicus obsoletus ingens Hartert, Nov. Zool., 7, 1900, p. 33. (Nairobi, Kenya Colony.)

Kenya Colony from Mt. Elgon and Turkana to Kitui and Nairobi.

Dendrocopos obsoletus crateri (Sclater and Moreau)

Yungipicus obsoletus crateri Sclater and Moreau, Bull. Brit. Orn. Cl., 56, 1935, p. 15. (Southwest lip of the crater of Ngorongoro, 7500 feet, Mbulu dist., Tanganyika Territory.)

Confined to the crater of Ngorongoro in northern Tanganyika Territory.

Dendrocopos dorae (Bates and Kinnear) [2]

Desertipicus dorœ Bates and Kinnear, Bull. Brit. Orn. Cl., 55,

[1] Cf. Grant and Mackworth-Praed, Bull. B. O. C., 59, 1939, p. 53.

[2] I have not examined a specimen of this bird, but there is nothing in the original diagnosis that shows any structural characters by which it could possibly be separated from *Dendrocopos;* in fact the describers of *Desertipicus* themselves admit that it is a "color genus."

1935, p. 156. (Ukadh, 5000 feet, Taif-Mecca Road, Arabia.)
Valleys of the Taif area, 4000–6000 feet, east of Mecca, Arabia.

Dendrocopos albolarvatus albolarvatus (Cassin)

Leuconerpes albolarvatus Cassin, Proc. Acad. Nat. Sci. Philadelphia, 5, 1850, p. 106. (Oregon Canyon, Eldorado Co., California.)

North-central Washington and northern Idaho southward through the timbered areas of Oregon east of the Cascades, and western Idaho to northern California, in the inner coast ranges south to Colusa County and in the Sierra Nevada to Mt. Pinos, also on the eastern slopes of the Sierra Nevada in Nevada.

Dendrocopos albolarvatus gravirostris (Grinnell)

Xenopicus gravirostris Grinnell, Condor, 4, 1902, p. 89. (Sierra San Gabriel, Los Angeles Co., California.)

Resident on the higher mountains of southern California (San Gabriel, San Bernardino, San Jacinto, Santa Rosa, Volcan and Cuyamaca mountains).

Dendrocopos villosus septentrionalis (Nuttall)

Picus septentrionalis Nuttall, Man. Orn. U.S. & Canada, ed. 2, 1840, p. 684. (Northern parts of the continent as far as the 63d parallel as well as in the Oregon Territory, = Saskatchewan River, Canada.)

Central-southern Alaska, middle Yukon, central Mackenzie, northern Manitoba, James Bay and south-central Quebec, south to southeastern British Columbia, Montana, northern North Dakota, central Ontario and the north shore of the Gulf of St. Lawrence.

Dendrocopos villosus terraenovae (Batchelder)

Dryobates villosus terrænovæ Batchelder, Proc. New England Zoöl. Cl., 4, 1908, p. 37. (Placentia, Newfoundland.)

Forested parts of Newfoundland.

Dendrocopos villosus villosus (Linné)

Picus villosus Linné, Syst. Nat., ed. 12, 1, 1766, p. 175. (North America = Raccoon, New Jersey.)

Picus leucomelas Boddaert, Table Pl. enlum., 1783, p. 21. (Canada, *ex* Daubenton, Pl. enlum, pl. 345, f. 1.)

Central North Dakota, Minnesota, southern Ontario, southern Quebec and Nova Scotia, south through eastern Colorado to central Texas, the Ozark region of Arkansas, southeastern Missouri, southern Tennessee, western North Carolina, and southeastern Virginia.

Dendrocopos villosus audubonii (Swainson)

Picus Audubonii Swainson, in Swainson and Richardson, Fauna Bor.-Am., 2, 1831 (1832), p. 306. (Georgia.)

South Atlantic and Gulf States from eastern Texas, southern Arkansas, southern Tennessee and southeastern Virginia to the Gulf Coast and southern Florida.

Dendrocopos villosus piger (G. M. Allen)

Dryobates villosus piger G. M. Allen, Auk, 22, 1905, p. 124. (Grand Bahama, Bahama Islands.)

Bahama Islands: Grand Bahama, Mores Island, Abaco.

Dendrocopos villosus maynardi (Ridgway)

Picus insularis Maynard, Naturalist in Florida, 1, 1885, no. 4, p. 13. (No locality = New Providence, Bahama Islands.) Not *Picus insularis* Gould, 1862.

Dryobates villosus maynardi Ridgway, Man. No. Am. Bds., 1887, p. 282. New name for *Picus insularis* Maynard, preoccupied.

Bahama Islands: New Providence, Andros.

Dendrocopos villosus picoideus (Osgood)

Dryobates picoideus Osgood, No. Am. Fauna, no. 21, 1901, p. 44. (Cumshewa Inlet, Moresby Island, Queen Charlotte Islands, British Columbia.)

Queen Charlotte Islands.

Dendrocopos villosus sitkensis (Swarth)

Dryobates villosus sitkensis Swarth, Univ. Cal. Publ. Zool., 7, 1911, p. 315. (Etolin Island, Alaska.)

Coast region of southeastern Alaska and northern British Columbia, south at least to Calvert Island.

Dendrocopos villosus harrisi (Audubon)

Picus Harrisi Audubon, Bds. Am., folio ed., 4, 1838, pl. 417, figs. 8 and 9. (Columbia River *ex* Orn. Biogr., 5, 1839, p. 191, = near Fort Vancouver, Washington.)

Humid Pacific Coast belt from southern British Columbia and Vancouver Island to Humboldt County, California.

Dendrocopos villosus hyloscopus (Cabanis and Heine)

Dryobates hyloscopus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 69, note. (San José, California.)

California from the Oregon line to the San Diegan district (replaced by *D. v. harrisi* in the northern humid coast belt), east to the northern Sierra Nevada, also extending northward through the

southern Sierra Nevada to about lat. 37° N. Absent from the great interior valleys and from the desert areas of the southeastern part of the state.

Dendrocopos villosus scrippsae (Huey)

Dryobates villosus scrippsae Huey, Trans. San Diego Soc. Nat. Hist., **5**, 1927, p. 9. (La Grulla, 7500 feet, Sierra San Pedro Mártir, Baja California.)

Northern Baja California in the Sierra Juárez and the Sierra San Pedro Mártir.

Dendrocopos villosus orius (Oberholser)

Dryobates villosus orius Oberholser, Proc. U.S. Nat. Mus., **40**, 1911, p. 597 (in key), p. 609. (Quincy, California.)

South-central Washington southward through central Oregon to northeastern California and northwestern Nevada.

Dendrocopos villosus monticola (Anthony)

Dryobates villosus montanus Anthony, Auk, **13**, 1896, p. 32. (Boulder County, Colorado.) Not *Picus montanus* Brehm, 1831, which is *Dendrocopos major* (Linné).

Dryobates villosus monticola Anthony, Auk, **15**, 1898, p. 54. New name for *D. v. montanus* Anthony, preoccupied.

Rocky Mountain region from south-central British Columbia, eastern Washington and central Montana, southward through northeastern Oregon, Idaho, Wyoming, northeastern Nevada, Utah and Colorado (except eastern) to north-central New Mexico, east to western South Dakota and western Nebraska.

Dendrocopos villosus leucothorectis (Oberholser)

Dryobates villosus leucothorectis Oberholser, Proc. U.S. Nat. Mus., **40**, 1911, p. 597 (in key), p. 608. (Burley, New Mexico.)

Inyo, Panamint, Grapevine and eastern San Bernardino Mts. in California, higher mountains in southern Nevada, southern Utah, Arizona (except southwestern deserts and mountains in southeastern part), western and central New Mexico and Guadelupe Mts. in western Texas.

Dendrocopos villosus icastus (Oberholser)

Dryobates villosus icastus Oberholser, Proc. U.S. Nat. Mus., **40**, 1911, p. 597 (in key), p. 612. (El Salto, Durango, México.)

Mountains of southeastern Arizona and extreme southwestern New Mexico, southward through eastern Sonora and western Chihuahua to Jalisco and Zacatecas.

Dendrocopos villosus intermedius (Nelson)

Dryobates villosus intermedius Nelson, Auk, **17**, 1900, p. 259. (Villar, San Luís Potosí, México.)

México in states of Nuevo León, Tamaulipas, San Luís Potosí and Hidalgo.

Dendrocopos villosus jardinii (Malherbe)

Picus (*Leuconotopicus*) *Jardinii* Malherbe, Rev. Zool., 1845, p. 374. (México = central Veracruz.)

Dryobates villosus enissomenus Oberholser, Proc. U.S. Nat. Mus., **40**, 1911, p. 597 (in key), p. 614. (Omilteme, Guerrero, México.)

Dryobates villosus hylobatus Oberholser, Proc. U.S. Nat. Mus., **40**, 1911, p. 597 (in key), p. 617. (Huitzilac, Morelos, México.)

Highlands of southern México in states of Jalisco, Michoacán, Guerrero, México, Morelos, Puebla, Veracruz and Oaxaca.

Dendrocopos villosus sanctorum (Nelson)

Dryobates sanctorum Nelson, Auk, **14**, 1897, p. 50. (Todos Santos, Guatemala.)

Highlands of Chiapas and Guatemala.

Dendrocopos villosus parvulus (Dickey and van Rossem)

Dryobates villosus parvulus Dickey and van Rossem, Proc. Biol. Soc. Washington, **42**, 1929, p. 219. (Los Esesmiles, 8000 feet, Dept. Chalatenango, El Salvador.)

Los Esesmiles in northern El Salvador and adjacent parts of northern and western Honduras.

Dendrocopos villosus fumeus (Oberholser)

Dryobates villosus fumeus Oberholser, Proc. U.S. Nat. Mus., **40**, 1911, p. 597 (in key), p. 619. (San Rafael del Norte, Nicaragua.)

Highlands of southern Honduras (region about Tegucigalpa) and northern Nicaragua.

Dendrocopos villosus extimus (Bangs)

Dendrocopus villosus extimus Bangs, Proc. New England Zoöl. Cl., **3**, 1902, p. 33. (Boquete, 6000 feet, Volcán de Chiriquí, Panamá.)

Mountains of Costa Rica and western Panamá.

Dendrocopos pubescens glacialis (Grinnell)

Dryobates pubescens glacialis Grinnell, Univ. California Publ.

Zool., 5, 1910, p. 390, fig. 7. (Valdez Narrows, Prince William Sound, Alaska.)

Kenai Peninsula and shores and islands of Prince William Sound eastward along the coast of Alaska to the Taku River.

Dendrocopos pubescens gairdnerii (Audubon)

Picus Gairdnerii Audubon, Orn. Biogr., 5, 1839, p. 317. (No locality, = near Fort Vancouver, Washington.)

Resident in the humid northwest coast region from southern British Columbia and Vancouver Island southward through western Washington and western Oregon to the Rogue River Valley, thence southwestward to Mendocino County, California.

Dendrocopos pubescens turati (Malherbe)

Picus Turati Malherbe, Monogr. Picidées, 1, 1861, p. 125; 3, pl. 29, f. 5, 6, 7. (Near Monterey, California.)

Resident in southwestern Oregon (Josephine, Jackson and Klamath counties), the greater part of California west of the Sierra divide and deserts except the humid coast belt from Mendocino County northward, and west-central Nevada in the valleys of the Truckee, Carson and Walker rivers.

Dendrocopos pubescens leucurus (Hartlaub)

Picus leucurus Hartlaub, Naumannia, 2, 1852, Heft 2, p. 55. (Rocky Mountains.)

Dryobates homorus Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 65. (California.)

Dryobates pubescens oreoecus Batchelder, Auk, 6, 1889, p. 253. (Las Vegas Hot Springs, New Mexico.)

Rocky Mt. region from southern British Columbia, southward through eastern Washington, and the greater part of Montana, eastern Oregon to extreme northeastern California, northern and eastern Nevada, central Arizona, northern New Mexico and western Nebraska.

Dendrocopos pubescens nelsoni (Oberholser)

Dryobates pubescens nelsoni Oberholser, Proc. U.S. Nat. Mus., 18, 1896, p. 549. (Nulato, Alaska.)

Resident in western Alaska, southwestern Mackenzie, southern Manitoba and James bay (Akimiski Island) south to extreme northern British Columbia, central Alberta and probably west-central Ontario (birds from the western Rainy River district are intermediate between this race and *medianus*). Southward irregularly in autumn and winter to eastern Colorado, Minnesota, Michigan, Kentucky and central New England.

Dendrocopos pubescens microleucus (Oberholser)

Dryobates pubescens microleucus Oberholser, Proc. Biol. Soc. Washington, 27, 1914, p. 43. (Fox Island River, Newfoundland.)

Newfoundland, and Anticosti Island in the Gulf of St. Lawrence.

Dendrocopos pubescens medianus (Swainson)

Picus (Dendrocopus) medianus Swainson, in Swainson and Richardson, Fauna Bor.-Am., 2, 1831 (1832), p. 308. (New Jersey.)

Resident from southeastern Alberta, southern Manitoba, southern Ontario, southern Quebec and Nova Scotia south to eastern Kansas, Missouri (except southeastern), northeastern Tennessee, western North Carolina and Virginia (except southeastern).

Dendrocopos pubescens pubescens (Linné)

Picus pubescens Linné, Syst. Nat., ed. 12, 1, 1766, p. 175. (North America, = South Carolina.)

Resident from eastern Texas, Oklahoma, southeastern Missouri, southern Tennessee, eastern North Carolina and southeastern Virginia, south to the Gulf Coast and Florida.

Dendrocopos borealis borealis (Vieillot)

Picus borealis Vieillot, Ois. Am. Sept., 2, 1807, p. 66, pl. 122. ("Northern United States" = Mount Pleasant, South Carolina, by designation of Wetmore, *infra,* p. 498.)

Eastern Oklahoma, southern Missouri, southeastern Kentucky and North Carolina, south to eastern Texas, the Gulf Coast and northern Florida.

Dendrocopos borealis hylonomus (Wetmore)

Dryobates borealis hylonomus Wetmore, Proc. U.S. Nat. Mus., 90, 1941, p. 498. (Seven miles southwest of Kissimmee, Florida.)

Central and southern Florida.

Dendrocopos nuttallii (Gambel)

Picus Nuttalii [sic] Gambel, Proc. Acad. Nat. Sci. Philadelphia, 1, 1843, p. 259. ("Near the Pueblo de los Angelos," = Los Angeles County, California.)

Resident in California west of the deserts and Sierra divide from Mendocino and Sonoma counties and the head of the Sacramento Valley, south to northwestern Baja California.

Dendrocopos scalaris cactophilus (Oberholser)

Dryobates scalaris cactophilus Oberholser, Proc. U.S. Nat. Mus., 41, 1911, p. 140 (in key), p. 152. (Tucson, Arizona.)

Dryobates scalaris yumanensis van Rossem, Condor, **44**, 1942, p. 24. (Laguna Dam, lower Colorado River, Imperial County, California.)

Dryobates scalaris mojavensis van Rossem, Condor, **44**, 1942, p. 24. (Palmdale, Mojave Desert, Los Angeles County, California.)

Resident in the desert areas of southeastern California, southern Nevada, southwestern Utah and western Texas, south to the Colorado River Delta in northeastern Baja California, Sonora, Chihuahua and northern Durango; Tiburón Island.

Dendrocopos scalaris eremicus (Oberholser)

Dryobates scalaris eremicus Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 141 (in key), p. 151. San Fernando, Baja California.)

Dryobates nuttallii longirostrata Huey, Trans. San Diego Soc. Nat. Hist., **5**, 1927, p. 27. (San Felipe, Baja California.)

Resident in northern Baja California from about lat 32° N. on the Pacific side, south to about lat 29° N.

Dendrocopos scalaris lucasanus (Baird)

Picus lucasanus "Xantus" Baird, Proc. Acad. Nat. Sci. Philadelphia, 1859, p. 302. (Cape San Lucas, Baja California.)

Baja California from about lat. 28° 31′ S. to the tip of the peninsula; Carmen, Santa Cruz, San José, Espiritu Santo, Santa Margarita and Esteban Islands.

Dendrocopos scalaris graysoni (Baird)

Picus (*Dyctiopicus*) *scalaris* var. *graysoni* Baird, in Baird, Brewer and Ridgway, Hist. No. Am. Land Bds., **2**, 1874, p. 501 (in key), p. 517. (Western México up to western Arizona; type from the Tres Marias Islands.)

Tres Marias Islands.

Dendrocopos scalaris sinaloensis (Ridgway)

Dryobates scalaris sinaloensis Ridgway, Man. No. Am. Bds., 1887, p. 285. (Near Mazatlan, Sinaloa.)

Dryobates scalaris agnus Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 150. (Camoa, Río Mayo, Sinaloa.)

Southern Sonora and Sinaloa.

Dendrocopos scalaris centrophilus (Oberholser)

Dryobates scalaris centrophilus Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 157. (Ameca, Jalisco.)

Western México in states of Nayarít, southern Durango, Jalisco, western Zacatecas and western Michoacán.

Dendrocopos scalaris azelus (Oberholser)

Dryobates scalaris azelus Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 141 (in key), p. 147. (La Salada, Michoacán.)

West-central Michoacán, southwestern Puebla, Guerrero and west-central Oaxaca.

Dendrocopos scalaris symplectus (Oberholser)

Dryobates scalaris symplectus Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 155. (Mouth of the Nueces River, Texas.)

Southeastern Colorado and western Oklahoma, southward through Texas east of the Pecos and west of long. 97° W., to northern Coahuila, Nuevo León and Tamaulipas.

Dendrocopos scalaris giraudi (Stone)

Picus Bairdi "Sclater" Malherbe, Monogr. Picidées, **1**, 1861, p. 118; **3**, pl. 27, figs. 7, 8. (México, = Hidalgo, *cf.* Oberholser 1911, *antea*, p. 159.) Not *Picus Bairdii* Giraud, Bds. Long Id., 1844, p. 178 in text.

Dryobates scalaris giraudi Stone, Auk, **37**, 1920, p. 146. New name for *Picus bairdi* Malherbe, preoccupied.

Southern Coahuila, San Luís Potosí, Guanajuato, Hidalgo, Puebla and México.

Dendrocopos scalaris scalaris (Wagler)

Picus scalaris Wagler, Isis von Oken, **22**, 1829, col. 511. (México, restricted to central Veracruz by Oberholser, *antea* 1911, p. 142.)

Northeastern Veracruz.

? Dendrocopos scalaris ridgwayi (Oberholser)

Dryobates scalaris ridgwayi Oberholser, Proc. U. S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 143. (Jaltipán, Veracruz.)

Coastal region of southeastern Veracruz; doubtfully distinct from *D. s. parvus*.

Dendrocopos scalaris parvus (Cabot)

Picus parvus Cabot, Boston Journ. Nat. Hist., **5**, 1845, p. 92. (Ticúl, Yucatán.)

Northern part of the Yucatán Peninsula; Cozumel Island.

Dendrocopos scalaris percus (Oberholser)

Dryobates scalaris percus Oberholser, Proc. U. S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 144. (Comitán, Chiapas.)

Chiapas.

Dendrocopos scalaris leucoptilurus (Oberholser)

Dryobates scalaris leucoptilurus Oberholser, Proc. U. S. Nat. Mus., **41**, 1911, p. 141 (in key), p. 146. (Pine Ridge, near Manatee Lagoon, British Honduras.)

British Honduras; some race of *D. scalaris* occurs on the Pacific coast of Honduras.

Dendrocopos arizonae arizonae (Hargitt)

Picus arizonæ Hargitt, Ibis, 1886, p. 115. (Santa Rita Mts., Arizona.)

Mountains of southern Arizona and southwestern New Mexico, south to northeastern Sonora and central Chihuahua.

Dendrocopos arizonae fraterculus (Ridgway)

Dryobates arizonæ fraterculus Ridgway, Man. No. Am. Bds., 1887, p. 286. (Sierra Nevada de Colima.)

Western México in southeastern Sonora and probably adjacent parts of Chihuahua, also in Sinaloa, Nayarít, Jalisco, Colima, Zacatecas and Michoacán; the birds recorded from northwestern Durango are probably referable here.

Dendrocopos stricklandi aztecus Moore

Dendrocopos stricklandi aztecus Moore, Proc. Biol. Soc. Washington, **59**, 1946, p. 104. (Puerta Lengua de Vaca, 9350 feet, on the Michoacán-México border.)

Central México in states of Michoacán and México; Distrito Federál.

Dendrocopos stricklandi stricklandi (Malherbe)

Picus (Leuconotopicus) Stricklandi Malherbe, Rev. Zool., 1845, p. 373. (México, restricted to the Mt. Orizaba massif by Moore, 1946.)

Eastern México (at elevations from 9400–13000 feet) in states of Veracruz and Puebla.

Dendrocopos mixtus cancellatus (Wagler)

Picus cancellatus Wagler, Isis von Oken, **22**, 1829, col. 510. (Mexico = São Paulo, Brazil.)

Southeastern Brazil in states of Goiáz, Minas Gerais, São Paulo and Mato Grosso.

Dendrocopos mixtus mixtus (Boddaert)

Picus mixtus Boddaert, Table Pl. enlum., 1783, p. 47. ("Encenada," = Buenos Aires, *fide* Hellmayr, Verh. Orn. Ges. Bayern, **12**, 1915, p. 212.)

Eastern Paraguay (?), Uruguay, and eastern Argentina in provs. of Corrientes, Santa Fé, Entre Ríos and Buenos Aires.

Dendrocopos mixtus malleator (Wetmore)

Dyctiopicus mixtus malleator Wetmore, Journ. Washington Acad. Sci., **12**, 1922, p. 326. (Las Palmas, Chaco, Argentina.)

Western Paraguay, southeastern Bolivia, northern and western Argentina in provs. of Salta, Jujuy, Catamarca, Formosa, Chaco, Santiago del Estero, Tucumán, San Juan and La Rioja.

Dendrocopos mixtus berlepschi (Hellmayr)

Dryobates mixtus berlepschi Hellmayr, Verh. Orn. Ges. Bayern, **12**, 1915, p. 212. (Mangrullo, Neuquén, Argentina.)

Western and southern Argentina in provs. of San Lúis, Córdoba, La Pampa, Neuquén and Río Negro.

Dendrocopos lignarius (Molina)

Picus Lignarius Molina, Sagg. Stor. Nat. Chili, 1782, p. 236, 343. (Chile.)

Bolivia in depts. of Cochabamba and Santa Cruz; Chile from Coquimbo to the Tres Montes Peninsula; western and southern Argentina in provs. of Córdoba, La Rioja, Neuquén, Río Negro and Chubut.

Genus **PICOÏDES** Lacépède

Picoïdes Lacépède, Tabl. Ois., 1799, p. 7. Type, by subsequent designation, *Picus tridactylus* Gmelin *i.e. Picus tridactylus* Linné. (G. R. Gray, List Gen. Bds., 1840, p. 54.)

cf. Buturlin, in Buturlin and Démentiev, Poln'ii Opredelitel Ptits S.S.S.R., **3**, 1936, p. 215–218.

Hartert, Vög. pal. Fauna, **2**, 1912, p. 929–933.

Mikheiev. Bull. Soc. Nat. Moscou, Sect. Biol., **47**, 1938, p. 167–173.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 289–302.

Picoïdes tridactylus tridactylus (Linné)

Picus tridactylus Linné, Syst. Nat., ed. 10, **1**, 1758, p. 114. (Sweden, Alps of Lapland and Dalekarlia, and Hudson Bay = Sweden, *ex* Fn. Suec.)

Picoides altaicus Buturlin, Orn. Monatsb., **15**, 1907, p. 10. (Altai.)

Picoides tridactylus stechowi Sachtleben, Anz. Orn. Ges. Bayern, no. 3, 1920, p. 20. (Zubrovo, Gouv. Grodno, Lithuania.)

Picoides tridactylus kurodai Yamashina, Tori, **6**, 1930, p. 255. (Nojido, eastern slope of Mt. Hakuto, northern Korea.)

Scandinavia, Lapland and northern Russia; the mountains of southern Siberia (Altai, Sayan, etc.); Manchuria, Amurland, Ussuri and northeastern Korea.

Picoïdes tridactylus alpinus C. L. Brehm

Picoides alpinus C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 194. (Mountains of Switzerland.)

The Alps, and the Carpathians from Savoy southward to Yugoslavia and Romania.

Picoïdes tridactylus crissoleucus (Reichenbach)

Apternus crissoleucus "Brandt" Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 362, pl. DCXXXI, f. 4197–98. (Forests on the Irtysh.)

Picoides uralensis Buturlin, Orn. Monatsb., **15**, 1907, p. 10. (Eastern Russia [Sura valleys] and West Siberia [Ob River.])

Picoides tridactylus kolymensis Buturlin, Orn. Mitt., **8**, 1917, p. 13. (Olekminsk and Sredne Kolymsk, northeastern Siberia.)

Northern Siberia, north to lat. 68° N., east to the Kolyma and extending southward to southeastern Transbaikalia; in winter to the Altai, Kossogol and northern Mongolia.

Picoïdes tridactylus tianschanicus Buturlin

Picoides tianschanicus Buturlin, Orn. Monatsb., **15**, 1907, p. 9. (Tien Shan.)

Picoides dzungarius Buturlin, Orn. Monatsb., **15**, 1907, p. 9. (Northwestern Mongolia.)

Picoides tridactylus korejewi "Zar. et Loud." Menzbier, Distr. Zool. Turkestan, 1914, p. 42, note 1, *nomen nudum.*

Tien Shan, Dzungaria (Kunges River, Tekes River, etc.)

Picoïdes tridactylus albidior Stejneger

Picoides albidior Stejneger, Bull. U. S. Nat. Mus., no. 29, 1885, p. 321, 338, 342. (Kamchatka); Proc. U. S. Nat. Mus., **11**, ♀ 1888, p. 168. (Kamchatka.)

Kamchatka.

Picoïdes tridactylus sakhalinensis Buturlin

Picoides sakhalinensis Buturlin, Orn. Monatsb., **15**, 1907, p. 10. (Sakhalin and adjacent mainland at Udsk, lower Amur.)

Picoides tridactylus sachalinensis Lönnberg, Journ. Coll. Sci. Tokio, **23**, 1908, art. 14, p. 41. (Chipesani, Sakhalin.)

Sakhalin.

Picoïdes tridactylus inouyei Yamashina

Picoides tridactylus inouyei Yamashina, Bull. Biogeograph. Soc. Japan, **13**, 1943, p. 43. (Mitsumata, Kami-Shihoro, Katô District, Tokachi Province, Hokkaido.)

Known only from the type-locality in east-central Hokkaido, where believed to be resident.

Picoïdes tridactylus funebris Verreaux

Picoides funebris J. Verreaux, Nouv. Arch. Mus. Hist. Nat. Paris, **6**, 1870, Bull., p. 33. (Mountains of Chinese Tibet = Sikang.)

Western China in provinces of Kansu, Sikang, Szechwan and Yunnan.

Picoïdes tridactylus fasciatus Baird

Picoides Americanus var *fasciatus* Baird, in Cooper's Orn. California, **1**, 1870, p. 385. (No locality = Fort Simpson, Mackenzie River.)

Picoides americanus fumipectus Grinnell, Univ. California Publ. Zool., **5**, 1909, p. 217. (Hooniah, Chichagof Island, Alaska.)

Northern Alaska, northern Yukon and northern and western Mackenzie, southward through British Columbia (including Vancouver Island), Alberta and western Saskatchewan, to the mountains of Oregon, northern Idaho and northwestern Montana.

Picoïdes tridactylus dorsalis Baird

Picoides dorsalis Baird, in Baird, Cassin and Lawrence, Rept. Expl. and Surv. R.R. Pacific, **9**, 1858, p. xxviii, 97, 100. (Laramie Peak, Wyoming.)

Rocky Mountain region from northern Montana southward on the higher mountains in eastern Nevada (Snake Range), Utah and Colorado, to central Arizona and central New Mexico.

Picoïdes tridactylus bacatus Bangs

Picoides americanus bacatus Bangs, Auk, **17**, 1900, p. 136. (Bangor, Maine.)

Picoides americanus labradorius Bangs, Auk, **17**, 1900, p. 138. (Okkak, Labrador.)

Southern Mackenzie, northern Manitoba (Churchill), northern Quebec (Chimo) and northern Labrador (Okkak), and Newfoundland, south to northern Minnesota, east-central Ontario, northern New York (Adirondack Mountains), northern New Hampshire (White Mountains) and northern Maine. Casual in winter to southern British Columbia, southern Wisconsin, Michigan, southern Ontario, Long Island and Massachusetts.

Picoïdes arcticus (Swainson)

Picus (Apternus) arcticus Swainson, in Swainson and Richardson, Fauna Bor. Am., **2**, 1831 (1832), p. 313. (Near the sources of the Athabasca River, lat. 57° N., eastern slope of the Rockies.)

Picoides arcticus tenuirostris Bangs, Auk, **17**, 1900, p. 131, f.b. (Fort Klamath, Oregon.)

Resident in northern North America from central Alaska, southern Mackenzie, northern Manitoba, James Bay, northern Quebec (Richmond Gulf) southern Labrador (Natashkwan River), Anticosti Island and Newfoundland, south to the mountains of California (Siskyou and Warner Mountains), Cascade Range and the Sierra Nevada south to lat. 37° 30′ N., western Nevada, northwestern Wyoming, southwestern South Dakota, northern Minnesota, northeastern Wisconsin and the upper peninsula of Michigan, southeastern Ontario (Muskoka district), the Adirondack Mountains, Green Mountains, White Mountains and northern Maine. Casual in winter south to Nebraska, Illinois, Indiana, Ohio, Pennsylvania and northern New Jersey.

Genus **SAPHEOPIPO** Hargitt

Sapheopipo Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 6 (in key), p. 378. Type, by original designation and monotypy, *Picus noguchii* Seebohm.

cf. Kuroda, Avifauna of the Riu Kiu Islands, 1925, p. 102–103.

Sapheopipo noguchii (Seebohm)

Picus noguchii Seebohm, Ibis, 1887, p. 178, pl. 7. (Ryukyu Islands, type from "Great Loo Choo Island" *i.e.* Okinawa.)

Confined to Okinawa, central Ryukyu Islands.

Genus **XIPHIDIOPICUS** Bonaparte

Xiphidiopicus Bonaparte, Ateneo Italiano, **2**, 1854, p. 126. (separately paged reprint, Consp. Vol. Zygodact, p. 11.) Type, by monotypy, *Picus percussus* Temminck.

Xiphidiopipo Sundevall, Consp. Av. Picinarum, 1866, p. 115. Emendation.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 182–185.

Xiphidiopicus percussus percussus (Temminck)

Picus percussus Temminck, Pl. col., livr. 66, 1826, pl. 390, 424. (Cuba.)

Island of Cuba.

Xiphidiopicus percussus insulae-pinorum Bangs

Xiphidiopicus percussus insulæ-pinorum Bangs, Proc. Biol. Soc. Washington, **23**, 1910, p. 173. (Santa Fé, Isle of Pines.)

Isles of Pines.

Genus **POLIPICUS** Cassin

Polipicus Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1863, p. 196. Type, by monotypy, *Polipicus elliotii* Cassin.

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 457–460.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 587–589.

Polipicus johnstoni schultzei (Reichenow)

Mesopicos schultzei Reichenow, Orn. Monatsb., **20**, 1912, p. 28. (Wassa, Fernando Po.)

Confined to Fernando Po.

Polipicus johnstoni johnstoni (Shelley)

Poliopicus johnstoni Shelley, Proc. Zool. Soc. London, 1887, p. 122. (Cameroon Mt., 6000 feet.)

Confined to Cameroon Mt.

Polipicus johnstoni sordidatus (Bates)

Mesopicus johnstoni sordidatus Bates, Bull. Brit. Orn. Cl., **49**, 1928, p. 33. (Oku, 6000 feet, west of Kumbo, Cameroons.)

Oku district, Cameroons highlands.

Polipicus elliotii Cassin

Polipicus Elliotii Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1863, p. 197. (Muni River, Gaboon.)

Cameroons eastward across the Congo forest to Mt. Elgon, the base of Ruwenzori and eastern Uganda, south to northern Angola and the Kasai.

Genus **MESOPICOS** Malherbe

Mesopicos Malherbe, Mém. Acad. Nat. Metz, **30**, 1848–49 (1849), p. 316, 340. Type, by subsequent designation, *Picus goertans* Gm. = *Picus goertae* P. L. S. Müller. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 450–453.

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 589–593.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., **2**, 1938, p. 756–759.

Moreau, Bull. Brit. Orn. Cl., **57**, 1936, p. 12–14.

Neumann, Orn. Monatsb., **34**, 1926, p. 80–81.

Mesopicos goertae königi Neumann

Mesopicos goertae königi Neumann, Orn. Monatsb., **11**, 1903, p. 181. (Mutmir, Berber Province, Sudan.)

French West Africa (Timbuktu) through Aïr and Lake Chad along the edge of the Sahara to the Nile Valley below Khartoum.

Mesopicos goertae goertae (P. L. S. Müller)

Picus Goertae P. L. S. Müller, Natursyst., Suppl., 1776, p. 91. (Senegal.)

Dendrobates poicephalus Swainson, Bds. W. Afr., **2**, 1837, p. 154. (Western Africa.)

Mesopicos goertae typicus Reichenow, Orn. Monatsb., **8**, 1900, p. 58. (Senegal.)

Senegal and the adjacent arid belt of French West Africa, east to the upper Niger.

Mesopicos goertae agmen Bates

Mesopicos goertæ agmen Bates, Bull. Brit. Orn. Cl., **53**, 1932, p. 74. (40 miles east of Wagadugu, upper Volta.)

Tree-savanna belt from Gambia and Portuguese Guinea through the Shari and Darfur to the White Nile and south to Sierra Leone, Liberia, Ivory Coast, Gold Coast and Nigeria. Recurs south of the equatorial forest from Gaboon to the Lualaba River.

Mesopicos goertae centralis Reichenow

Mesopicos goertae centralis Reichenow, Orn. Monatsb., **8**, 1900, p. 59. (Ndussuma, west of Lake Albert.)

Mesopicus goertæ eremiæ Stoneham, Ibis, 1926, p. 90. (Bombo, Uganda.)

Mesopicus goertæ acholiorum Stoneham, Ibis, 1926, p. 90. (Near Padea, Chua district, Uganda.)

Savannas of Cameroons to the Ubangi and Uelle districts and the southern Bahr el Ghazal, south to Uganda and northwestern Kenya Colony and extending into the savannas east of the Ituri forest from Lake Albert to Ruanda.

? Mesopicos goertae oreites Grote

Mesopicos goertae oreites Grote, Orn. Monatsb., **31**, 1923, p. 78. (Bofia region, Cameroons.)

Central Cameroons highlands; doubtfully distinct from *M. g. centralis*.

Mesopicos goertae abessinicus Reichenow

Mesopicos goertae abessinicus Reichenow, Orn. Monatsb., **8**, 1900, p. 58. (Ethiopia, Kordofan and Sennar; type locality

fixed as Sereya, 15 miles north of Roseires, Blue Nile, eastern Sudan, by Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., 69, 1939, p. 53.)

Eastern Sudan in Sennar and the valley of the Blue Nile; northern and central Ethiopia.

Mesopicos goertae spodocephalus (Bonaparte)

Dendrobates spodocephalus Bonaparte, Consp. Av., 1, 1850, p. 125. (West Africa = East Africa, *i.e.* Shoa, *ex* Rüppell, Vög. N.-O. Afr., p. 86.)

Southern Ethiopia.

Mesopicos goertae rhodeogaster (Fischer and Reichenow)

Picus (Mesopicus) rhodeogaster Fischer and Reichenow, Journ. f. Orn., 32, 1884, p. 180. (Massailand = northern Tanganyika Territory.)

Central districts of Kenya Colony and northern Tanganyika Territory.

Mesopicos griseocephalus ruwenzori (Sharpe)

Mesopicus ruwenzori Sharpe, Bull. Brit. Orn. Cl., 13, 1902, p. 8. (Ruwenzori.)

Mesopicos griseocephalus kiwuensis Reichenow, Vög. Afr., 3, 1905, nachtr., p. 824. (Lake Kivu.)

Highlands from Mt. Ruwenzori to the southern Kivu district; birds from southwestern Tanganyika Territory are not typical of this race.

Mesopicos griseocephalus persimilis Neumann

Mesopicos griseocephalus persimilis Neumann, Verh. Orn. Ges. Bayern, 20, 1933, p. 227. (Chipepe, Bailundu, Benguella.)

Highlands of Angola eastward through Katanga and Marungu to northern Nyasaland.

Mesopicos griseocephalus kilimensis Neumann

Mesopicos griseocephalus kilimensis Neumann, Orn. Monatsb., 34, 1926, p. 80. (Kifinica highland, 3000 meters, Mt. Kilimanjaro.)

Mountains of northern Tanganyika Territory (Meru, Kilimanjaro, Paré, Usambara and Uluguru).

Mesopicos griseocephalus griseocephalus (Boddaert)

Picus griseocephalus Boddaert, Table Pl. enlum., 1783, p. 49. (Cape of Good Hope, *ex* Daubenton, pl. 786, f. 2.)

Wooded areas of South Africa from northern Transvaal to Natal and Cape Province.

Genus THRIPIAS Cabanis and Heine

Thripias Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 121. Type, by subsequent designation, *Picus namaquus* Lichtenstein. (Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 307.)

cf. Bannerman, Bds. Trop. W. Afr., **3**, 1933, p. 453–457 (*Mesopicos pyrrhogaster* and *M. xantholophus.)*

Chapin, Bull. Am. Mus. Nat. Hist., **75**, 1939, p. 595–597.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., **2**, 1938, p. 753–755.

Moreau, Bull. Brit. Orn. Cl., **57**, 1936, p. 10–11.

Thripias namaquus schoënsis (Rüppell)

Picus (Dendrobates?) Schoënsis Rüppell, Mus. Senckenbergianum, **3**, 1842, p. 120. (Shoa.)

Thripias namaquus turkanae Granvik, Rev. Zool. Bot. Africaines, **25**, 1934, p. 54. (Turkana dist., northwestern Kenya Colony.)

Darfur, Anglo-Egyptian Sudan and southern Ethiopia, south to the Bahr el Ghazal, northeastern Uganda and the southern Turkana and western Suk districts of Kenya Colony.

Thripias namaquus saturatus Berlioz

Thripias namaquus saturatus Berlioz, Bull. Mus. Hist. Nat. Paris (2), **6**, 1934, p. 230. (Bozoum, Ubangi-Shari.)

French Equatorial Africa.

Thripias namaquus decipiens (Sharpe)

Mesopicus decipiens Sharpe, Journ. Linn. Soc., Zool., **17**, 1884, p. 430. (Zanzibar; error, the type is from the Shimba Hills, southwest of Mombasa, Kenya Colony.)

Thripias namaquus intermedius C. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 101. (Ugogo, Tanganyika Territory.)

Mesopicus schoensis semischoensis Lönnberg, Ark. Zool., **10**, 1917, no. 24, p. 19. (Kasindi, Lake Edward.)

Southwestern Uganda, and Kenya Colony from the Tana River and Nairobi, south to the north shore of Lake Edward and central Tanganyika Territory.

Thripias namaquus namaquus (A. Lichtenstein)

Picus Namaquus A. Lichtenstein, Cat. Rer. nat. rar., 1793, p. 17. (Interior of South Africa = Damaraland.)

Mesopicos namaquus var. *angolensis* Reichenow, Vög. Afr., **2**, 1902, p. 190. (Malandje.)

Northern Angola, Katanga, Marungu and Nyasaland, south to Great Namaqualand and eastern Cape Province.

Thripias xantholophus (Hargitt)

Dendropicus xantholophus Hargitt, Ibis, 1883, p. 173. (Gaboon.)

Mesopicos xantholophus chloroticus van Someren, Bull. Brit. Orn. Cl., **41**, 1921, p. 105. (Lugalambo, Uganda.)

Cameroons eastward across the Congo forest to Uganda and Mt. Elgon and south to northern Angola, southern Kasai and the Semliki Valley.

Thripias pyrrhogaster (Malherbe)

Picus (Chloropicus) Pyrrhogaster, Malherbe, Rev. Zool., 1845, p. 399. (South Africa = Sierra Leone.)

Upper Guinea forests from Sierra Leone to southern Nigeria; lower Guinea in the vicinity of Cameroon Mt.

Genus **HEMICIRCUS** Swainson

Hemicircus Swainson, Classif. Bds., **2**, 1837, p. 306. Type, by monotypy, *H. concretus* Pl. col. 90 = *Picus concretus* Temminck.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 82–86.

Chasen, Bull. Raffles Mus., no. 11, 1936, p. 150.

Riley, Bull. U. S. Nat. Mus., no. 172, 1938, p. 238–239.

Hemicircus concretus sordidus (Eyton)

Dendrocopus sordidus Eyton, Ann. and Mag. Nat. Hist., **16**, 1845, p. 229. (Malacca.)

Southern Tenasserim, Peninsular Siam and the Malay States.

Hemicircus concretus coccometopus (Reichenbach)

Hemicercus coccometopus Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c. Picinae, 1854, p. 401, pl. DCLVI, fig. 4364–65. (Sumatra and Celebes = Sumatra.)

Hemicercus brookeanus Salvadori, Atti. R. Accad. Sci. Torino, **3**, 1868, p. 525. (Borneo.)

Sumatra, Bangka, Borneo.

Hemicircus concretus concretus (Temminck)

Picus concretus Temminck, Pl. col., livr. 15, 1821, pl. 90. (Java.)

Western and central Java.

Hemicircus canente canente (Lesson)

Picus canente Lesson, Cent. Zool., 1830, p. 215, pl. 73. (Pegu.)

Assam south of the Brahmaputra, Burma, Malay Peninsula, Siam (chiefly in the lowlands of the eastern provinces) and southern Indochina.

Hemicircus canente cordatus (Jerdon)

Picus (Hemicircus?) cordatus Jerdon, Madras Journ. Lit. Sci., 11, 1840, pt. 1, p. 211. (Forests of Malabar and in the Wynaad.)

West coast of India from Khandala to Malabar and Travancore.

Genus **BLYTHIPICUS** Bonaparte

Blythipicus Bonaparte, Ateneo Italiano, 2, 1854, p. 124. (Separately paged reprint, Consp. Vol. Zygodact., 1854, p. 9.) Type, by subsequent designation, *Picus* [*i.e. Hemicircus*] *rubiginosus* Swainson. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 94.)

cf. Kinnear, Bull. Brit. Orn. Cl., 46, 1926, p. 72–74.

Stresemann, Arch. Naturg., 87, Abth. A., 1921, Heft 7, p. 98–99.

Blythipicus pyrrhotis pyrrhotis (Hodgson)

Picus Pyrrhotis Hodgson, Journ. As. Soc. Bengal, 6, 1837, p. 108. (Nepal.)

Blythipicus pyrrhotis intermedius Delacour, Bull. Brit. Orn. Cl., 47, 1927, p. 154. (Backan, northeastern Tonkin.)

Nepal, Assam, Burma and Tonkin, south to eastern Bengal, northern Siam, Tonkin and Laos.

Blythipicus pyrrhotis cameroni Robinson

Blythipicus pyrrhotis cameroni Robinson, Bull. Brit. Orn. Cl., 48, 1928, p. 57. (Gunong Mengkuang Lebah, 4800 feet, Selangor.)

Mountains of the Malay States.

Blythipicus pyrrhotis annamensis Kinnear

Blythipicus pyrrhotis annamensis Kinnear, Bull. Brit. Orn. Cl., 46, 1926, p. 72. (Langbian Peaks, Annam.)

Langbian Peaks in southern Annam, possibly Cambodia.

Blythipicus pyrrhotis sinensis (Rickett)

Lepocestes sinensis Rickett, Bull. Brit. Orn. Cl., 6, 1897, p. 1. (Kuatun, Fukien.)

Southeastern China in provinces of Fukien, Kwangtung and

Kwangsi; the specimen recorded from Tatsienlu, Szechwan (now = Kangting, Sikang) by Oustalet [1] should be reexamined.

Blythipicus pyrrhotis hainanus (Ogilvie-Grant)

Lepocestes hainanus Ogilvie-Grant, Ibis, 1899, p. 585. (Five-finger Mts., Hainan.)

Island of Hainan.

Blythipicus rubiginosus parvus Chasen and Kloss

Blythipicus rubiginosus parvus Chasen and Kloss, Journ. f. Orn., 1929, Ergänzungsb. II, p. 112. (Bettotan, near Sandakan, British North Borneo.)

Sumatra and Borneo.

Blythipicus rubiginosus rubiginosus (Swainson)

Hemicircus rubiginosus Swainson, Bds. W. Africa, 2, 1837, p. 150. (Western Africa; error = Malacca, Hartlaub, Rev. Zool., 1844, p. 402.)

Southern Tenasserim, Peninsular Siam and the Malay Peninsula.

Genus **CHRYSOCOLAPTES** Blyth

Chrysocolaptes Blyth, Journ. As. Soc. Bengal, 12, pt. 2, 1843, p. 1004. Type, by subsequent designation, *C. strictus* = *Picus strictus* Horsfield. (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 442).[2]

cf. Stuart Baker, Ibis, 1919, p. 194–197.

——, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 76–82.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 149–150.

Hachisuka, Bds. Phil. Ids., 2, pt. 3, 1934, p. 239–245.

Stresemann, Arch. f. Naturg., 87, Abth. A, 1921, Heft 7, p. 94–97.

Chrysocolaptes validus xanthopygius Finsch

Chrysocolaptes xanthopygius Finsch, Notes Leyden Mus., 26, 1905, p. 34. (Upper Mahakan, Borneo.)

Malay Peninsula, Sumatra, Borneo, North Natoena Islands.

Chrysocolaptes validus validus (Temminck)

Picus validus Temminck, Pl. col., livr. 64, 1825, pl. 378, 402. (Java.)

Western and central Java.

[1] Bull. Mus. Hist. Nat. Paris, 4, 1898, p. 221.

[2] Gray, Cat. Gen. Subgen. Bds., 1855, p. 92 designates *Picus sultaneus* Hodgson, but this was not one of the originally included species.

Chrysocolaptes festivus festivus (Boddaert)

Picus festivus Boddaert, Table Pl. enlum., 1783, p. 43. (Goa, *ex* Daubenton, pl. 696.)

Indian Peninsula.

Chrysocolaptes festivus tantus Ripley

Chrysocolaptes festivus tantus Ripley, Spolia Zeylanica, **24**, 1946, p. 214. (Embilipitiya, Ceylon.)

Ceylon.

Chrysocolaptes lucidus sultaneus (Hodgson)

Picus Sultaneus Hodgson, Journ. As. Soc. Bengal, **6**, 1837, p. 105. (Nepal.)

Garhwal, Kuman, Nepal; the birds from northeastern Tonkin are referred to this race.[1]

Chrysocolaptes lucidus guttacristatus (Tickell)

Picus Guttacristatus Tickell, Journ. As. Soc. Bengal, **2**, 1833, p. 578. (Jungles of Borabhum and Dholbhum.)

Indopicus delesserti Malherbe, Mém. Acad. Nat. Metz, **30**, 1848–49 (1849), p. 343. (India.)

Chrysocolaptes guttacristatus indo-malayicus Hesse, Orn. Monatsb., **19**, 1911, p. 182. (Southern Further India and Salanga Island; type from Salanga.)

Bengal, Bihar, Assam, Burma, Shan States, Siam south to the Lankawi Islands; central and southern Indochina.

Chrysocolaptes lucidus chersonesus Kloss

Chrysocolaptes strictus chersonesus Kloss, Ibis, 1918, p. 113. (Singapore Island and the coast of Johore opposite; the Si Karang, southern Johore specimen is designated as the type by Robinson, Ibis, 1919, p. 181.)

Chrysocolaptes guttacristatus socialis Koelz, Proc. Biol. Soc. Washington, **52**, 1939, p. 78. (Jagalbed, Bombay Presidency.)

Southern India; extreme southern part of the Malay Peninsula, Singapore Island, Riouw Archipelago, Sumatra, western and central Java.[2]

Chrysocolaptes lucidus stricklandi (Layard)

Brachypternus Stricklandi Layard, Ann. and Mag. Nat. Hist. (2), **13**, 1854, p. 449. (Gillymalle, Ceylon.)

Ceylon.

[1] Delacour and Jabouille, Ois. Indochine Franç., **2**, 1931, p. 229.

[2] Distribution of *C. l. strictus* and *C. l. chersonesus* in Java see Chasen, *antea*, p. 150, note.

Chrysocolaptes lucidus strictus (Horsfield)

Picus strictus Horsfield, Trans. Linn. Soc. London, **13**, pt. 1, 1821, p. 176. (Java.)

Java (chiefly eastern),[1] Bali, Kangean Islands.

Chrysocolaptes lucidus andrewsi Amadon

Chrysocolaptes lucidus andrewsi Amadon, Ibis, 1943, p. 332. (Sebattick Island, Borneo.)

Known only from Sebattick Island and from the coast of Borneo (Sandakan).

Chrysocolaptes lucidus erythrocephalus Sharpe

Chrysocolaptes erythrocephalus Sharpe, Trans. Linn. Soc. London, Zool. (2), **1**, 1877, p. 315, pl. 46, f. 1. (Puerto Princesa Paláwan.)

Philippine Islands: Calamianes, Paláwan, Balabac.

Chrysocolaptes lucidus haematribon (Wagler)

Picus Haematribon Wagler, Syst. Av., 1827, Picus, sp. 95. (India? = Luzon.)

Philippine Islands: Luzon, Marinduque.

Chrysocolaptes lucidus grandis Hachisuka

Chrysocolaptes lucidus grandis Hachisuka, Suppl. Publ. Orn. Soc. Japan, no. 14, 1930, p. 179. (Polillo.)

Philippine Islands: Polillo.

Chrysocolaptes lucidus xanthocephalus Walden and Layard

Chrysocolaptes xanthocephalus Walden and Layard, Ibis, 1872, p. 99, pl. 4. (Negros.)

Philippine Islands: Masbate, Ticao, Panay, Guimaras, Negros.

Chrysocolaptes lucidus rufopunctatus Hargitt

Chrysocolaptes rufopunctatus Hargitt, Ibis, 1889, p. 231. (Panaón.). Col. pl., Cat. Bds. Brit. Mus., **18**, pl. 12.

Philippine Islands: Samar, Leyte, Panaón, Bohol.

Chrysocolaptes lucidus lucidus (Scopoli)

Picus lucidus Scopoli, Del. Flor. et Faun. Insubr., **2**, 1796, p. 89. (Mindanao, *ex* Sonnerat.)

Chrysocolaptes montanus Ogilvie-Grant, Bull. Brit. Orn. Cl., **16**, 1905, p. 16. (Mt. Apo, 8000 feet, and Piso, Mindanao.)

Philippine Islands: Mindanao.

[1] See note under *C. l. chersonesus*, p. 226.

Chrysocolaptes lucidus maculiceps Sharpe

Chrysocolaptes maculiceps Sharpe, Trans. Linn. Soc. London, Zool. (2), **1**, 1877, p. 314, pl. 46, f. 2. (Basilan.)

Philippine Islands: Basilan.

Genus **PHLOEOCEASTES**[1] Cabanis

Phloeoceastes Cabanis, Journ. f. Orn., **10**, 1862, p. 175, 176. Type, by original designation, *Ph. robustus* (Ill. Licht.) = *Picus robustus* Lichtenstein.

cf. Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 354–356; **55**, 1926, p. 367–369.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 462–468 (excl. *Ipocrantor*).

Pinto, Rev. Mus., Paulista, **22**, 1938, p. 351–354.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 170–181.

Phloeoceastes guatemalensis regius (Reichenbach)

Campephilus regius Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 393, pl. DCXLIX, f. 4331, 4332. (Papantla, Veracruz.)

Eastern and central México in states of Tamaulipas, San Luís Potosí, Veracruz and México.

Phloeoceastes guatemalensis dorsofasciatus Moore

Phloeoceastes guatemalensis dorsofasciatus Moore, Proc. Biol. Soc. Washington, **48**, 1935, p. 113. (Guirocoba, Sonora.)

Western México in states of Sonora, Sinaloa and Nayarit.

Phloeoceastes guatemalensis nelsoni (Ridgway)

Scapaneus guatemalensis nelsoni Ridgway, Proc. Biol. Soc. Washington, **24**, 1911, p. 34. (El Rincón, Guerrero.)

Western México in states of Jalisco, Colima, Michoacán, Guerrero and western Oaxaca.

Phloeoceastes guatemalensis guatemalensis (Hartlaub)

Picus guatemalensis Hartlaub, Rev. Zool., 1844, p. 214. (Guatemala.)

Campophilus [sic] *guatemalensis buxans,* Bangs, Auk, **18**, 1901, p. 360. (Divala, Chiriquí, Panamá.)

Southern México in states of Chiapas, Tabasco, Campeche, Yucatán and Quintana Roo, southward over all of tropical Central America to western Panamá.

[1] Includes *Scapaneus* Cabanis and Heine, 1863 and *Cniparchus* Cabanis and Heine, 1863.

Phloeoceastes melanoleucos malherbii (G. R. Gray)

Campephilus malherbii G. R. Gray, Gen. Bds., 2, 1845, p. [436], pl. CVIII. (No locality = Bogotá.)

Panamá from the eastern part of the provinces of Bocas del Toro and Chiriquí,[1] extending over the greater part of Colombia and to western Venezuela (Mérida region and Sierra de Perijá).

Phloeoceastes melanoleucos melanoleucos (Gmelin)

Picus melanoleucos Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 426. (Surinam.)

Eastern base of the Eastern Andes of Colombia, eastern Ecuador and eastern Perú, east to the Guianas, Brazil to the Rio Tapajóz and northern Goiáz; birds from eastern Bolivia not seen.

Phloeoceastes melanoleucos gayaquilensis (Lesson)

Picus Gayaquilensis Lesson, Écho du Monde Savant, 12, 1845, p. 920. (Guayaquil.)

Phloeoceastes melanoleucos erythrobuccalis Verheyen, Bull. Mus. Royal Hist. Nat. Belgique, 17, 1941, no. 17, p. 1. (Canchacoto-Occidente [= Canzacoto], western Ecuador.)

Western Ecuador and northwestern Perú.

Phloeoceastes melanoleucos albirostris (Vieillot)

Picus albirostris Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 69. (Paraguay.)[2]

Brazil from Mato Grosso, southern Goiáz, and southern Baía southward; Paraguay; northwestern Argentina in Province of Salta.

Phloeoceastes melanoleucos cearae (Cory)

Scapaneus melanoleucus [sic] *cearæ* Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1915, p. 306. (Juá, near Iguatú, Ceará.)

Northeastern Brazil in states of Maranhão, Piauí, Ceará and northern Baía.

Phloeoceastes leucopogon (Valenciennes)

Picus leucopogon Valenciennes, Dict. Sci. Nat., éd. Levrault, 40, 1826, p. 178. (Brazil.)

[1] The ranges of *P. m. malherbii* and *P. g. guatemalensis* do not overlap but appear to adjoin without intergradation. *P. melanoleucos* and *P. guatemalensis* might be considered subspecies by some, but I believe that considering the two as comprising a "super species" is the more logical course.

[2] *cf.* Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 417-418; Pinto, Rev. Mus. Paulista, 23, 1938, p. 515-516.

Southern Brazil in states of Rio Grande do Sul (no recent records), Bolivia (few records), northern Argentina in provinces of Salta, Catamarca, Tucumán, Formosa, Chaco, Misiones, Santiago del Estero, Santa Fé and Entre Ríos; Paraguay; Uruguay.

Phloeoceastes rubricollis rubricollis (Boddaert)

Picus rubricollis Boddaert, Table Pl. enlum., 1783, p. 37. (Cayenne, *ex* Daubenton, pl. 612.)

Colombia from the eastern base of the Eastern Andes from Villavicencio southward, southern Venezuela, the Guianas, and northern Brazil on the upper Rio Negro and south to Obidos.

Phloeoceastes rubricollis trachelopyrus (Malherbe)

Megapicus trachelopyrus Malherbe, Bull. Soc. Hist. Nat. Moselle, 8e cahier, 1857, p. 1. (Perú.)

Eastern Perú, northern Bolivia in Dept. of La Paz, and western Brazil eastward at least to the Rio Juruá; birds from eastern Ecuador are intermediate between *P. r. rubricollis* and *P. r. trachelopyrus.*

Phloeoceastes rubricollis olallae (Gyldenstolpe)

Scapaneus trachelopyrus olallae Gyldenstolpe, Kungl. Sv. Vet. Akad. Handl., 22, 1945, no. 3, p. 127. (Caxiricatuba, right bank of the lower Rio Tapajóz, Brazil.)

Brazil south of the Amazon from the right bank of the Rio Madeira east to Maranhão and south to the Yungas of Bolivia.

Phloeoceastes robustus (Lichtenstein)

Picus robustus Lichtenstein, Verz. ausgestop. Säug. Vög., 1819, p. 9.[1] (Brazil.)

Picus robustus Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 10. (Baía.)

Dryocopus percoccineus Bonaparte, Consp. Av., 1, 1850, p. 134. (Buenos Aires.)

Brazil in states of Goiáz, Minas Gerais, southern Baía, Espirito Santo, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.

Phloeoceastes pollens pollens (Bonaparte)

Picus pollens Bonaparte, Atti Sesta Riunione Sci. Italiani, 1845, p. 406. (Colombia.)

Humid temperate and upper subtropical zones in Colombia and Ecuador.

[1] So cited by Sherborn; I have not been able to verify this citation. The name is usually quoted from the 1823 reference.

Phloeoceastes pollens peruvianus (Cory)

Scapaneus pallens [sic] *peruviana* Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., **1**, 1915, p. 307. (Molinopampa, Perú.)

Humid temperate and upper subtropical zones of eastern Perú.

Phloeoceastes haematogaster splendens (Hargitt)

Campophilus splendens Hargitt, Ibis, 1889, p. 58. (Amazons, the type is a Bogotá trade skin; Chapman, Bull. Am. Mus. Nat. Hist., **36**, 1917, p. 355, designates Puerto Valdivia, Antioquia, Colombia.)

Tropical zone of Panamá from Veraguas eastward and the Pacific slope of South America to northwestern Ecuador.

Phloeoceastes haematogaster haematogaster (Tschudi)

Picus haematogaster Tschudi, Arch. f. Naturg., **10**, 1844, Bd. 1, p. 302. (Perú.)

Subtropical zone of the Andes from the Bogotá region to southern Perú.

Genus **CAMPEPHILUS** G. R. Gray[1]

Campephilus G. R. Gray, List Gen. Bds., 1840, p. 54. Type, by original designation, *C. principalis* (L.) = *Picus principalis* Linné.

Megapicos Malherbe, Mém. Acad. Nat. Metz, **30**, 1848–49 (1849), p. 317. Type, by subsequent designation, *C. imperialis* = *Picus imperialis* Gould (Hargitt, Cat. Bds. Brit. Mus., **18**, 1890, p. 460.)

cf. Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., **19**, 1932, p. 250.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 164–170.

Campephilus principalis principalis (Linné)

Picus principalis Linné, Syst. Nat., ed. 10, **1**, 1758, p. 113. (North America = South Carolina, *ex* Catesby.)

Formerly occurred over the southeastern lowlands of the United States from North Carolina to Florida and in the Mississippi Valley to southern Indiana and southern Illinois, extending along the coast of Texas to the Brazos River. Now confined to a small forest area in Louisiana and rapidly nearing extinction.

Campephilus principalis bairdii Cassin

Campephilus Bairdii Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1863, p. 322. (Monte Verde, Cuba.)

Island of Cuba; now very rare.

[1] Replaces *Campophilus* (emendation) of Sharpe's Hand-list and includes *Ipocrantor* Cabanis and Heine, 1863.

Campephilus imperialis (Gould)

Picus imperialis Gould, Proc. Comm. Zool. Soc. London, pt. 2, 1832, p. 140. ("California" = Jalisco, México.)

Sierra Madre of México in states of Sonora, Chihuahua, Durango, Zacatecas, Jalisco and Michoacán.

Campephilus magellanicus (King)

Picus Magellanicus King, Zool. Journ., 3, 1828, p. 430. (Port Famine, Straits of Magellan.)

Magellanic forest region of southern South America from Colchagua, Chile, on the west and from Lake Nahuel Huapí, Argentina on the east, south to Tierra del Fuego.

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